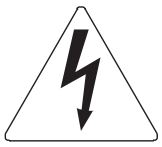
VOICE SYSTEMS

GALILEO
MULTIMEDIA PLAYER

Manuale di Istruzioni
User Manual

Ver.: 1.0

WARNING: READ THIS FIRST!



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s unclosure that may be of sufficient magnitude to constitute a risk of electric shok to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK:
DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS”

IMPORTANT SAFETY INSTRUCTIONS

WARNING:

1) Reed these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit in to your outlet, consult an electrician for replacement of the obsolete outlet.
10) The socket-outlet shall be installed near the equipment and shall be easily accessible.
11) Protect the power cord from being walked on pinhead, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
12) Only use attachments/accessories specified by the manufacturer.
13) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold, with the apparatus. when a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over..

14) Unplug this apparatus during lightning storms or when unused for long periods of time.
15) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged

SAVE THESE INSTRUCTIONS

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IMPORTANT NOTES

- Before connecting the power supply unit to the mains please verify that voltage is the same as indicated on the power supply unit.
- Handle with care knobs and switches.
- Do not place, if possible, the instrument near units that may strongly interfere with it e.g. radio, TV sets, monitors, etc.
- Do not place Galileo near to heat sources, wet places, dust or strong magnetic fields.
- Do not place Galileo under direct sun rays.
- By no reasons objects or liquids of any kind should be introduced into the instrument.
- To clean Galileo use a soft cloth or compressed air, never use alcohol, solvents or detergents.
- Use always shielded and good quality cables. When you disconnect plugs please use the connector itself, do not pull cables.
- Before any connection of the unit make sure that all other units (with particular reference to power amps and speakers) are switched off. You will avoid noisy and dangerous sound peaks

NOTES ON THE INSTRUMENT

To obtain the best performance, please note and strictly follow the indicated herebelow instructions.

- Galileo uses only Smart-Media™ memory card type.
- Be extremely careful with the memory cards; do not place them close to heat sources, or in wet or dusty environments. Do not touch the metal contacts switch with fingers. Use the original protection case when memory cards are not inserted into the Galileo.

Files format recommendations:

- Galileo plays only standard MIDI files (extension .MID), files MIDI for Karaoke (.KAR) and MP3 audio files (.MP3). Files with different extensions will not be shown on the display.
- In order to be correctly read, the MIDI files must be General MIDI (GM) standard type.
- It is not possible to play MIDI files bigger than 320 Kbytes.

NOTES ON THIS MANUAL

- Preserve this manual with care.
- This manual is part of the instrument itself. No responsibility will be taken for the content of this manual.
- The manufacturer reserves itself the right to modify parts, details, or accessories to improve the instrument of for any constructive or marketing reason, in every moment and without the need of upgrading quickly this manual.
- All rights are reserved; the reproduction of any part of this manual is forbidden, without written approval from the manufacturer.
- Read carefully the information contained in this manual. You won't waste your time and will obtain the best performances from the instrument.
- The information in square brackets ([]) refer to the silk screening of the controls on the instrument itself. For example [TEMPO] means the TEMPO key.
- The drawings on this manual are merely intended as useful information and can slightly differ from the ones shown on the instrument display.
- All trademarks listed in this manual are property of the Manufacturer.

LIMITATIONS TO RESPONSABILITY

Voice Systems and Voice Systems dealers are not responsible for any damage caused by any improper use or modifications of the instrument, and for loss or destruction of any or all data.

GALILEO BRIEF DESCRIPTION

Voice Systems Galileo is a file player able to play files in the **Standard Midi (.MID)**, **Karaoke (.KAR)** and **MP3 audio** standards. In addition, it allows to play MIDI files containing audio tracks and MP3 files with karaoke.

The Midifile sound generation is created by a General Midi (GM) card, with a 42 notes polyphony, which provides 393 sounds, Reverb and Chorus effects,10 drum sets sounds.

By means of the internal video board, Galileo allows to display on a TV screen the song lyrics, for all file formats Midifile, Kar, MP3™ (coding ID3 Ver.2.00). The output signal is an RGB with embedded audio.

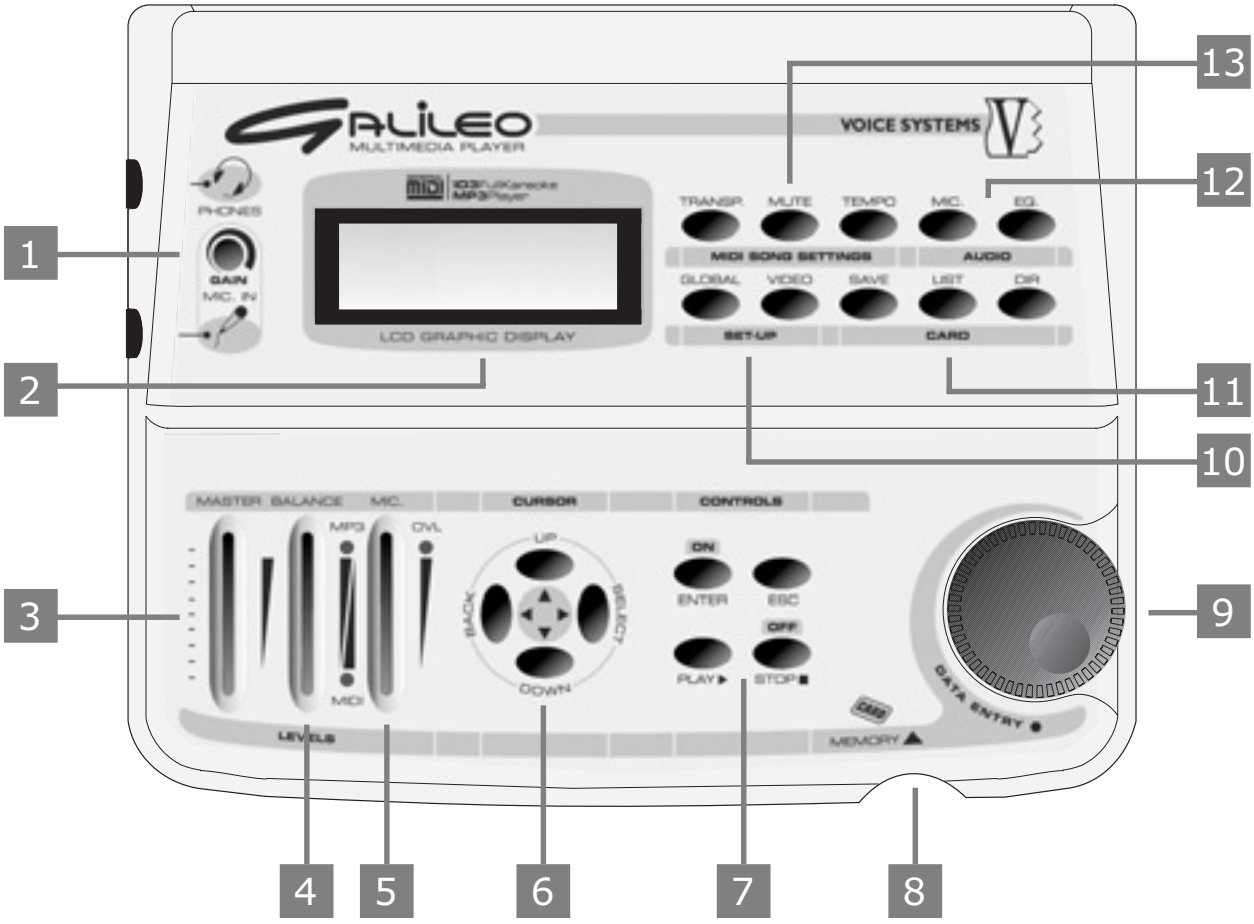
As to memory cards, Galileo uses the Smart-Media™ format, in sizes from 8MB to 128MB; it supports long file name structure (more than 8 characters), as well as folders structures. When connected to a computer, via USB cable, Galileo is used as a Mass Storage device, and it is recognized as a removable disk.
Galileo does not needs any particular software for file storage: by a simple drag and drop operation you may easly transfer data from the computer to the Smart-Media™ card and viceversa; everything in a simple and safe way.

The instrument includes a microphone input (with independent Gain and Level controls), provided with internal effect and two eq sets for each one of MIDI files and MP3 files.
The audio signal is sent also to the SCART plug, in order to connect Galileo to a TV set, without necessarily connecting it to an audio power amp.

The interface is multi lingual, and together with the graphic display and the data entry keys, allow an easy use of Galileo.

Moreover, in order to keep you updated about the latest improvements and/or modifications we suggest you to check from time to time all news included into our web site **www.vsgalileo.com.**

CONTROL PANEL



1. **[GAIN]:** potentiometer to trim the input gain for the microphone connected to **[MIC IN]** plug.

2. **[LCD GRAPHIC DISPLAY]:** backlit display (122 x 32 pixels) that shows all instrument settings.

3. **[MASTER]:** this potentiometer adjusts the Volume level of the signals on the **[LINE OUT]** and **[RGB VIDEO OUT]** back panel plugs.

4. **[BALANCE]:** balance potentiometer for MIDI and MP3 sources. The LEDs on the side of the slider show the sources actually active:

   - **[MP3]:** the player is playing an MP3 file
   - **[MIDI]:** the player is playing a MIDI file

   Recalling not mixed songs (only MIDI or only MP3) we recommend to place the slider in the side of the active source or in the middle, since the other source is not active. In case that MIDI songs contain one or more MP3 tracks, both LEDs will switch on: use the slider pot to obtain the correct balance between the sources.

5. **[MIC.]:** this potentiometer controls the microphone output level. The **[OVL]** LED if it lighted on indicates the overload (distortion) signal. If this happens, decrease the input gain with the **[GAIN]** control, in order to have the LED blinking occasionally.

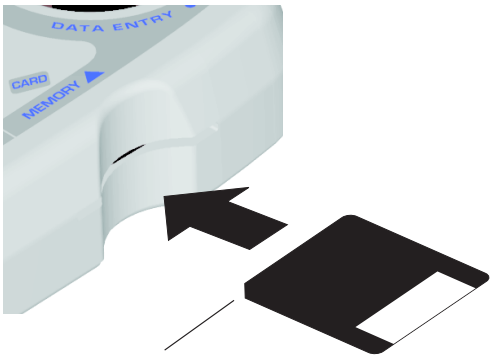
6. **CURSORS section:** this section contains, controls the cursors shown on the display and let the displayed folders run and, more precisely:

   - **[UP]:** it moves cursor up.
   - **[SELECT]:** it moves cursor right. In the main video page it is used for the Dir function.
   - **[DOWN]:** it moves cursor down.
   - **[BACK]:** it moves cursor left. In the main page, it recalls the Dir function

7. **CONTROLS section:** instrument general control keys.

   - **[ON / ENTER]:** it is a control which is needed and suitable:
     A) to switch on the instrument
     B) to load the selected files to be played
     C) to select the functions to be displayed
     D) to confirm some functions of the instrument which require " confirmation "
     E) to store the modifications which have been made on the presets.
   - **[ESC]:** it is the escaping key to leave a setting procedure without saving the modifications.
   - **[PLAY]:** play the selected song. When pressed during the playback, it works as a pause key.
   - **[OFF / STOP]:** stops the playback. By holding down this button for a second, the Standby mode will be activated.

8. **[MEMORY CARD]:** insert here the Smart-Media™ memory card.
   Please insert the card with the metal contact on the lower side.



Reference corner

9. **Encoder [DATA ENTRY]:** rotary knob to set the displayed parameters.

10. **SET-UP section:** section containing the buttons used to recall the general settings procedures.

    - **[GLOBAL]:** shows the menu to control display contrast, file play mode and other system parameters.
    - **[VIDEO]:** functions related to set up the TV display.

11. **CARD Section:** these buttons are used for the memory card management.

    - **[SAVE]:** Button used to save data into the card
    - **[LIST]:** It shows the songs contained in the active list (chain of songs)
    - **[DIR]:** It displays the contents of the memory card.

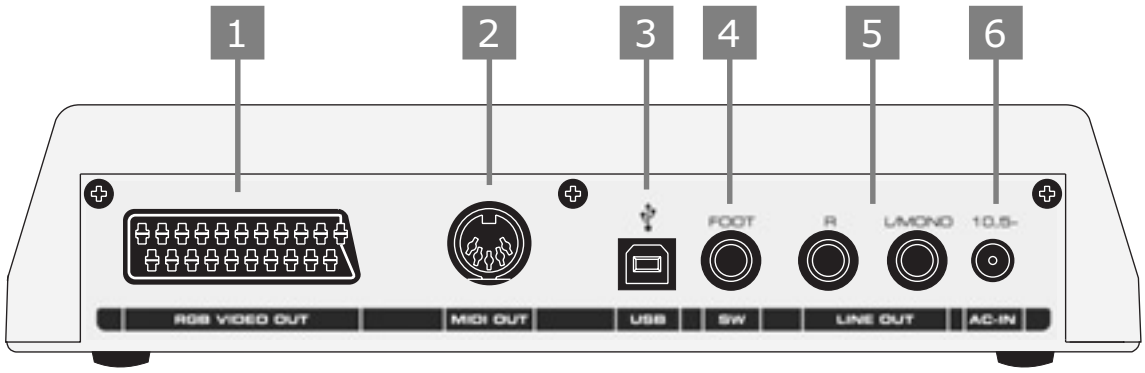
12. AUDIO Section: section containing the buttons for the audio parameters editing

- **[MIC.]:** Microphone effect settings.
- **[EQ.]:** Equalizer sections for MIDI and MP3 files.

13. MIDI SONG SETTINGS Section: the buttons in this section allow the user to edit the midifile general parameters like:

- **[TRANSP.]:** Song transpose.
- **[MUTE]:** Track mute.
- **[TEMPO]:** Metronome tempo for playback.

REAR PANEL



1. [RGB VIDEO OUT]: SCART plug used to connect a TV set. Using a TV Set it is possible to display the lyrics of the song (for karaoke purposes) and get the audio signal in order to avoid the use of a separate sound system.

ATTENTION!

✓ *To connect Galileo with a TV set use a SCART cable* ***with all 21 pins connected****.*

2. [MIDI OUT]: DIN 5 poles plug for MIDI data, used to connect Galileo with external MIDI instruments such expanders, electronic drums, etc…

3. [USB]: USB plug to connect Galileo to a computer.

4. [SW]: 1/4 inch Jack plug to connect a foot-switch pedal (optional).

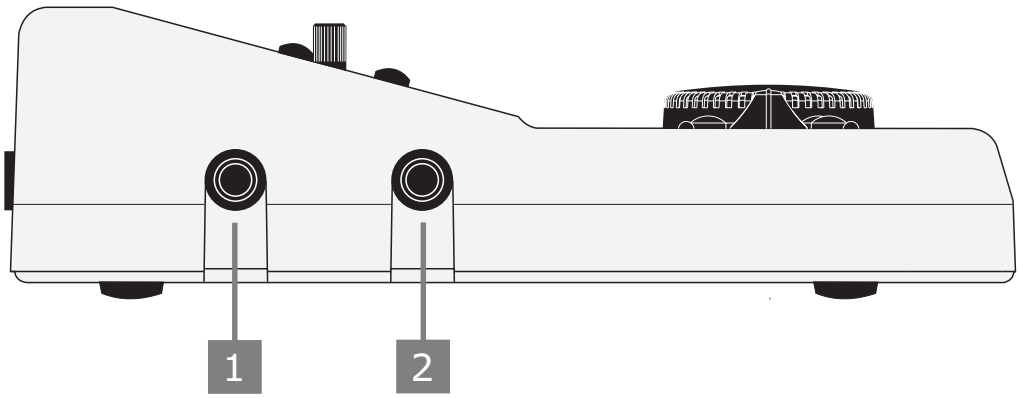
5. **[LINE OUT]:** 1/4 inch Jack plugs for the output audio signal of Galileo, to connect external sound systems. In case of use of a mono signal, connect the **[L/MONO]** plug only.

6. **[AC-IN]:** connector for the external power supply unit.

ATTENTION!

✓ *To connect the power supply of Galileo **use only the adapter provided with the instrument**. If some problems occur with the original adapter, please address it to the nearest authorized service point. VOICE SYSTEMS does not guarantee the instrument if used with other adapters.*

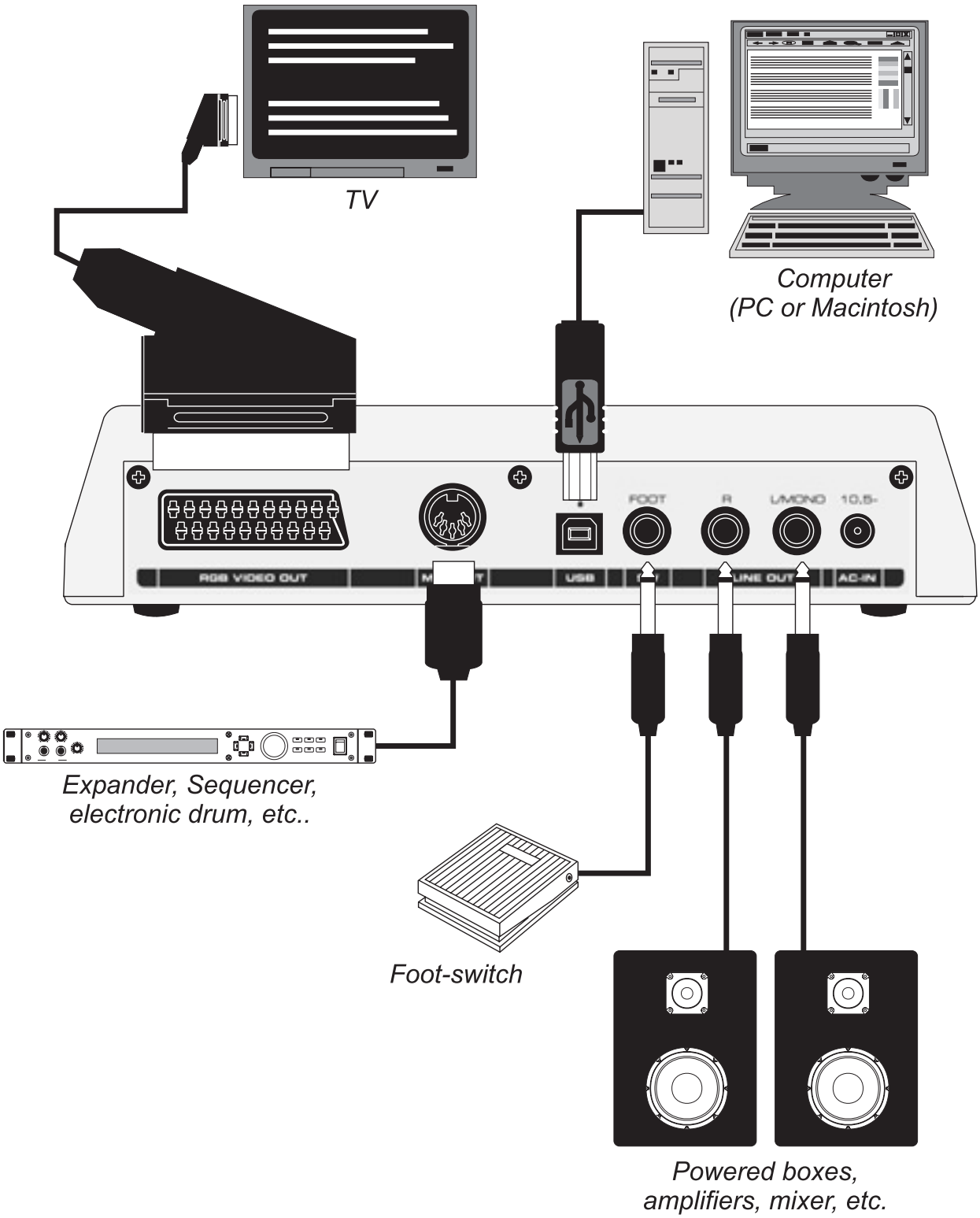
SIDE PANEL



1. **[PHONES]:** 1/4 inch stereo Jack plug to connect headphones. Use only headphones with a minimum 16 Ω impedance.

2. **[MIC. IN]:** 1/4 inch Jack plug to connect a microphone. Using this input, on the audio outputs (but also on the **[RGB VIDEO OUT]** plug) the signal from both songs and microphone will be reproduced, reducing the need of using an external sound system. As stated before, Galileo provides also an internal effect unit, to add depth and spectrum to your voice.

CONNECTION EXAMPLES



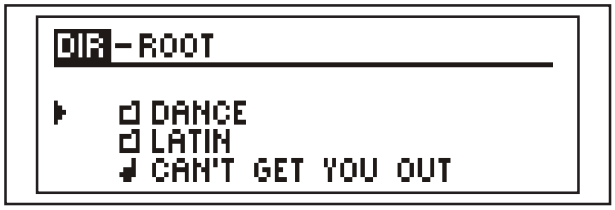
FIRST SETUP

Once you have connected Galileo to the power supply, the **[ENTER]** key LED will light up, showing that the instrument is presently in “energy saving mode” (“Stand-By”).

To switch on the instrument hold down for a second the **[ENTER]** button, the display will show the startup video page:

and then the operating system version installed (**FIRMWARE REL.**):

The contents of the inserted memory card (“root” directory) will be displayed:



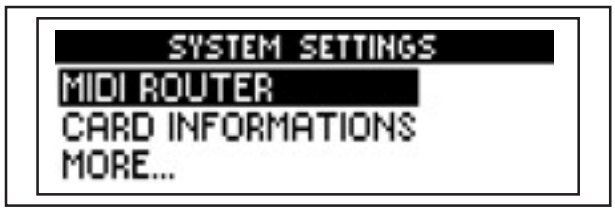
If the memory card is not inserted, the display will show:

informing that to proceed it is necessary to insert the card.

LANGUAGE SELECTION

Galileo has a multi-lingual user interface, therefore the first operation to execute is to select the desired language.
To do this press **[GLOBAL]**,

using the key **[CURSOR DOWN]** select the **SYSTEM** field and press **[ENTER]**,



now select **MORE**:

and, if not, set select **ENGLISH** for the **LANGUAGE** parameter.

USB MODE SELECTION

Even if you haven't still connected Galileo to your computer system, it is a good rule to setup now the USB mode, to avoid all possible erros during the first connection.
Galileo has three different functional modes, depending on the different operating system with which it shall work.
The USB mode setup is located in the same video page used for the language selection (reported above). In the following table are listed all the possible Galileo USB modes:

OPERATING SYSTEM	USB MODE
Windows 98 Second Edition	NORMAL
Windows ME	NORMAL
Windows 2000 Home or Professional	NORMAL
Windows XP	ADVANCED
MAC 9.1 or higher	MAC

After having selected the language and the right USB mode press **[ENTER]** to confirm the new settings and to leave the setup page. Press **[ESC]** to abort the operation.

SWITCHING OFF

The Galileo switch off procedure includes also the saving of all internal system parameters.

To switch Galileo off hold down the **[STOP]** button: the instrument will ask you for a confirmation:

then press **[ENTER]** to switch into “Stand-By” mode while, by pressing any other button, it will switch back to the normal mode.

ATTENTION!

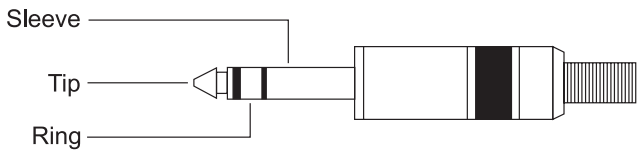
- ✓ *If Galileo is switched off without pressing the **[STOP]** button (for example by pulling the power supply cable) all the settings which have been performed by the user will be lost.*

CONNECTING AND USING YOUR MICROPHONE

Connect your microphone to the **[MIC IN]** plug on the Galileo side panel. As a first step it is necessary to regulate the input signal gain to avoid excessive distortions. To do this proceed as follows:
Set the **[GAIN]** pot in a middle position and the **[MIC]** slider pot in the position where you would like to have optimum volume. Please note that the slider **[MIC**] controls only the volume, and it is not responsible for any distortion. At this point, trim the **[GAIN]** pot so that the **[OVD]** LED blinks occasionally while having a loud signal (e.g. shouting).

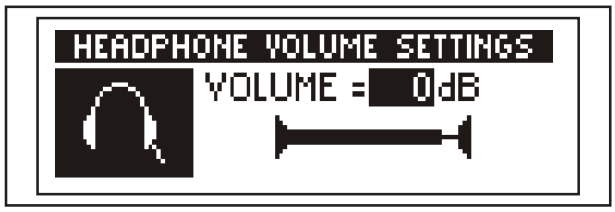
NOTE

✓ *For a better microphone performance we suggest to use a balanced connection.*



USING HEADPHONES

To connect an headphone set use the **[PHONES]** input plug. The system will automatically detect the presence of headphones, showing on the display the following page:



Use the **[DATA ENTRY]** encoder, when the main page is displayed, to set the desired headphones volume.

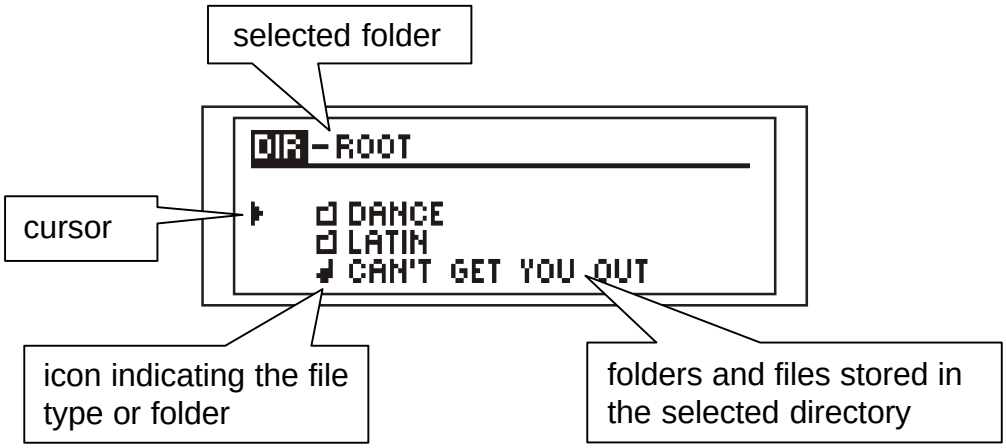
NOTE

✓ *The **[MASTER]** slider does not regulate the headphones output level.*

SELECT AND PLAY SONGS

HOW TO LOAD A SONG

After the power on procedures, Galileo enables automatically the Dir function (that is in every moment possible to recall by simply pressing **[DIR]**):



NOTE

✓ *The Dir function is also automatically displayed every time a memory card is inserted.*

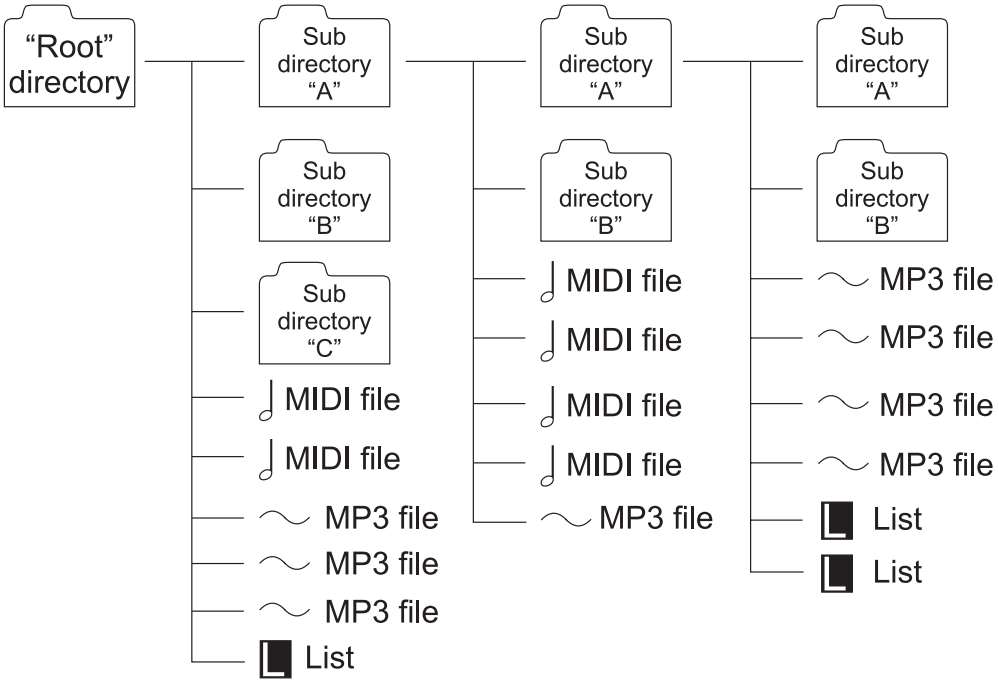
This function allows the access to the content of the inserted memory card, to load the desired song or to program a list.

It is possible to see from the picture above that this video page informs you about the directory (folder) actually selected. The “root” directory is always selected at the first access

The middle of the display shows the contents of the selected directory (folder), that can contain other subdirectories (sub-folders), MIDI files, MP3 files, or lists.
For each type, Galileo shows a different icon as described herebelow:

- directory
- MIDI file
- MP3 file
- file list (it is a proprietary file generated by Galileo)

By using the computer, it is possible to create a “tree” of directories (folders) where each folder can contain itself one or more folders, as reported in the herebelow example:



To navigate inside the directory “tree” and to select the desired file use the following buttons:

- **[UP]:** to move cursor up.
- **[SELECT]** when the cursor highlights a directory**:** to open the selected directory.
- **[SELECT]** when the cursor highlights a file**:** to insert the file in a list
- **[DOWN]:** to move cursor down.
- **[BACK]:** to go back to the previous directory.
- **[ENTER]** when the cursor highlights a directory**:** to open the selected directory.
- **[ENTER]** when the cursor highlights a file**:** to load the selected file (MIDI, MP3 or List)

It is also possible to move the cursor by using the **[DATA ENTRY]** knob.

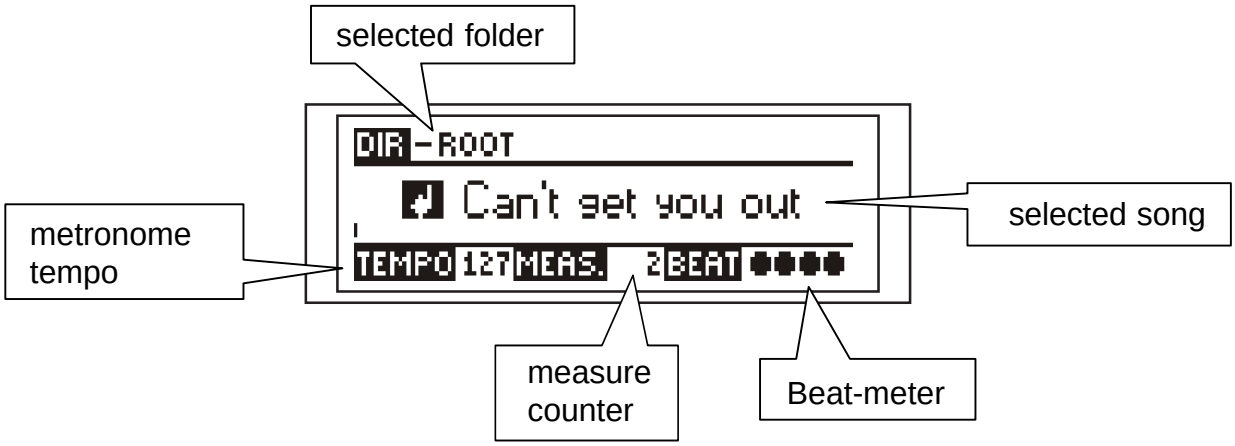
When loading a MIDI file the display will show:

for all the time which is necessary to load the data in the internal memory.

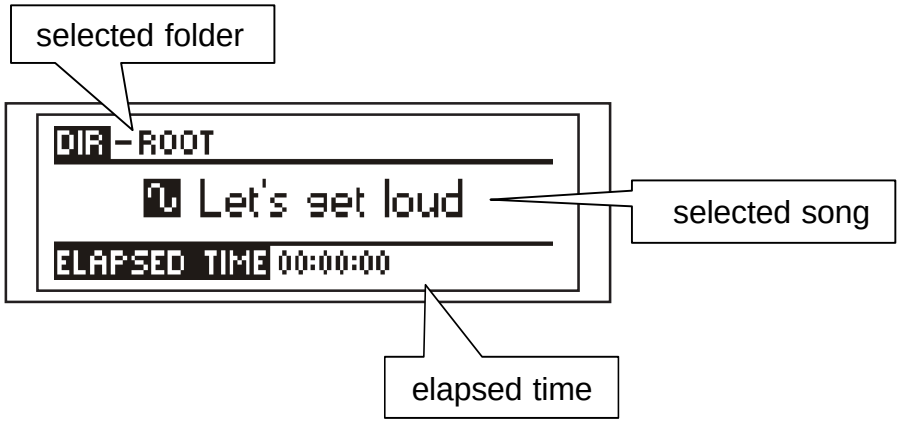
PLAYING BACK A SONG

When the selected file is ready for the playback, the display shows the MIDI or MP3 “play page”.

MIDIFILE



FILE MP3



When the **[PLAY]** button is pressed, the LED will light up and playback of the song will start.

When the **[STOP]** key is pressed the playback of the song stops and by pressing **[PLAY]** again the playback is it temporarily interrupted and the unit enters a “Pause Mode“ (Pause). The pause mode is indicated by the flashing [PLAY] LED. By pressing **[PLAY]** again the execution will restart from the pause point.

To load a new song, stop the playback by pressing **[STOP]** and then let the memory card display its contents using, the **[DIR]** key, the **[CURSOR]** section buttons or the **[DATA ENTRY]** encoder (only if headphones are not connected) and select the desired song.

To program the next song (that will be played automatically at the end of the current song), after having displayed the memory card content, select the deired song with the **[SELECT]**

key (the number “01” will appear near the file name) press **[ENTER]**. When the display is back to the main page press **[STOP]** to execute immediately the new song or wait that the previous playing will end.

NOTES

- ✓ *It is important to remind that all control and configuration functions are always accessible, without stopping the playback of a song. In addition to all normal functions such as volumes and balance, you can control in real time the modifications on the MIDI files, EQ section, microphone, prepare a list and so on.*
- ✓ *To program and playback a song list, please refer to the “List” chapter.*
- ✓ *While reproducing a song, either MIDI or MP3, do not extract the memory card to avoid the interruption of the playback.*
- ✓ *When the function “HEADER JUMP” (see chapter “Song playback modes”) is active, the **MEAS.** field could not start with measure 1.1 depending of where the first note is located.*
- ✓ *For what concerns the description of the MIDI files containing MP3 files, please consult the advanced user manual.*

CONNECTING A COMPUTER

To copy, cancel, move or rename a file inside the Smart media™ card it is necessary to connect Galileo to computers using the included USB cable.

During the first connection the computer will ask for the drivers needed for the management of the USB interface.
The Operating Systems Windows ME, 2000, XP and Mac 9.1 (or superior) are able to install automatically the required drivers (plug and play feature).
If your system has installed a Windows 98 Second Edition, it will be necessary to install the drivers from the CD provided with your Galileo.

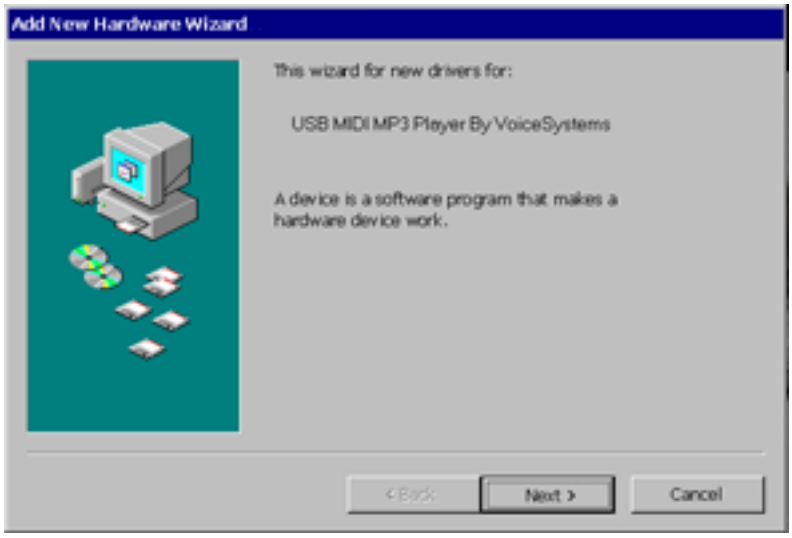
Hereunder the operations needed to install the drivers are descripted for each O.S.

WINDOWS 98 SECOND EDITION

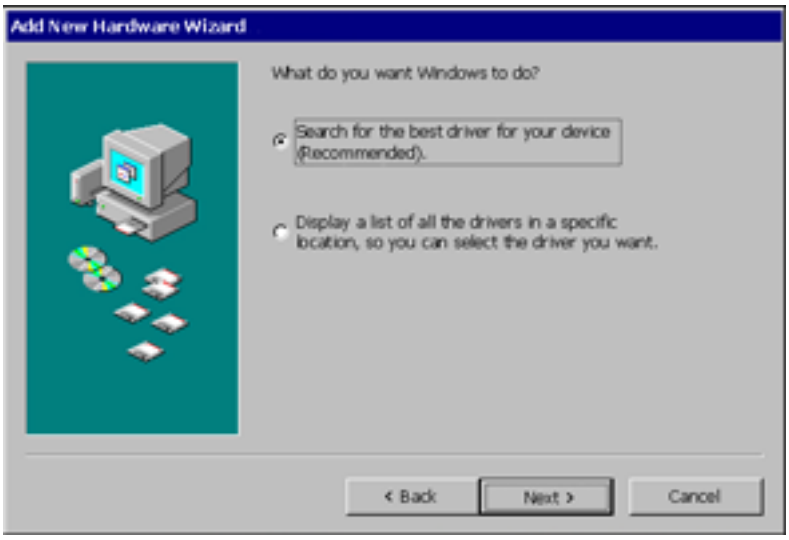
Switch on Galileo and setup the **NORMAL** USB mode in the OTHER SETTINGS video page of the Global menu (for further info see the “FIRST SETUP” chapter).

Switch on the PC and wait until the O.S. is fully loaded. Insert the Galileo CD-ROM in the PC drive and connect the PC with the USB cable to the Galileo.

The OS will automatically detect the new hardware, identifying type and manufacturer, and will ask for the needed drivers:


Add New Hardware Wizard
This wizard for new drivers for:
USB MIDI MP3 Player By VoiceSystems
A device is a software program that makes a hardware device work.
< Back
Next >
Cancel

Click on “Next”,


Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device (Recommended).
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

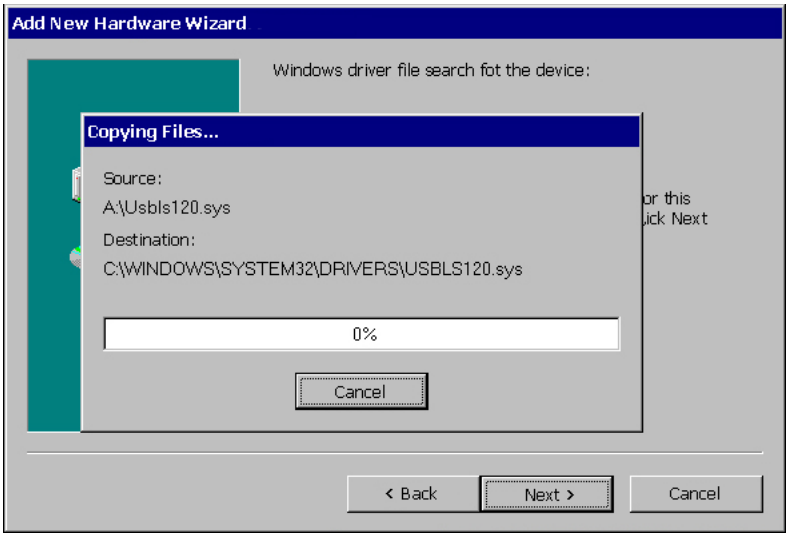
and select “Search for the best driver for your device”. Click again on “Next”:

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
A:\Win Drivers
Browse...
< Back
Next >
Cancel

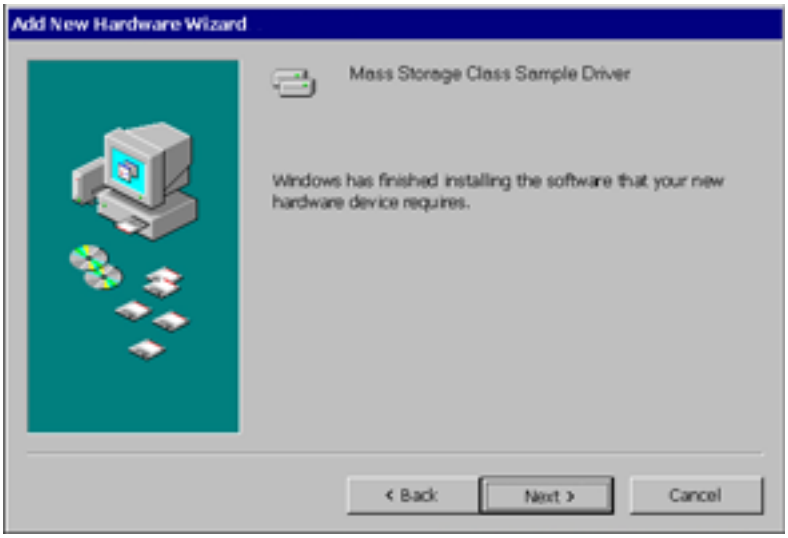
It is now necessary to select the “CD-ROM drive” and click “Next”. A message box will display the driver name that will be installed and its path:

Add New Hardware Wizard
Windows driver file search fot the device:
Mass Storage Class Sample Driver
Windows is now ready to install the best driver for this device. Clcl Back to select a different driver or click Next to continue.
Location of driver:
A:\USBLS120.INF
< Back
Next >
Cancel

click again on “Next”, the PC will search and install all necessary files:



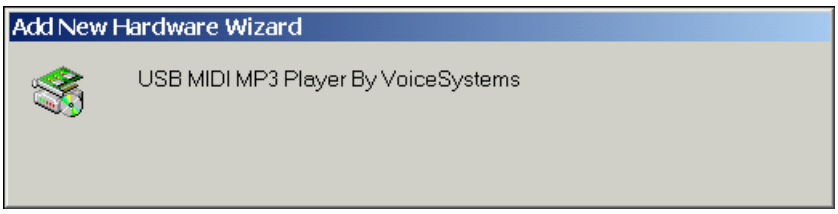
When completed the following message box will be displayed:


Add New Hardware Wizard
Mass Storage Class Sample Driver
Windows has finished installing the software that your new hardware device requires.
< Back
Next >
Cancel

WINDOWS ME - 2000 - XP

Switch on Galileo and setup the **NORMAL** USB mode (for Win ME or 2000) or **ADVANCED** (for Win XP) in the OTHER SETTINGS screen of the Global menu (for further info see the “FIRST SETUP” chapter). Switch on the PC and wait until the O.S. is fully loaded.

Connect the PC with the USB cable to the Galileo. The OS will automatically detect the new hardware, identifying type and manufacturer:



and installing the required driver by itself:

A message regarding the USB device connected will be displayed:

and how this device is recognized by the OS:

When the operation is completed, on the try bar will appear the following icon:

This icon means that a device with a memory card is connected to the PC and it will be showed at any connection of the Galileo.

MAC O.S. 9.1 or higher

Switch on Galileo and select the **MAC-OS** USB mode in the OTHER SETTINGS video page of the Global menu (for further info see the “FIRST SETUP” chapter). Switch on the computer and wait until the O.S. is fully loaded. Connect the PC with the USB cable to the Galileo.
The OS will automatically detect the new hardware, identify type and manufacturer, and il will install all needed drivers.

When finished, on the computer desktop will appear the “Galileo” or “Untitled” icon, indicating that the device was correctly installed.

NOTES

- ✓ *In addition to the icon shown on the computer, at every connection (at power-on or by inserting a new card, etc), the instrument will show:*

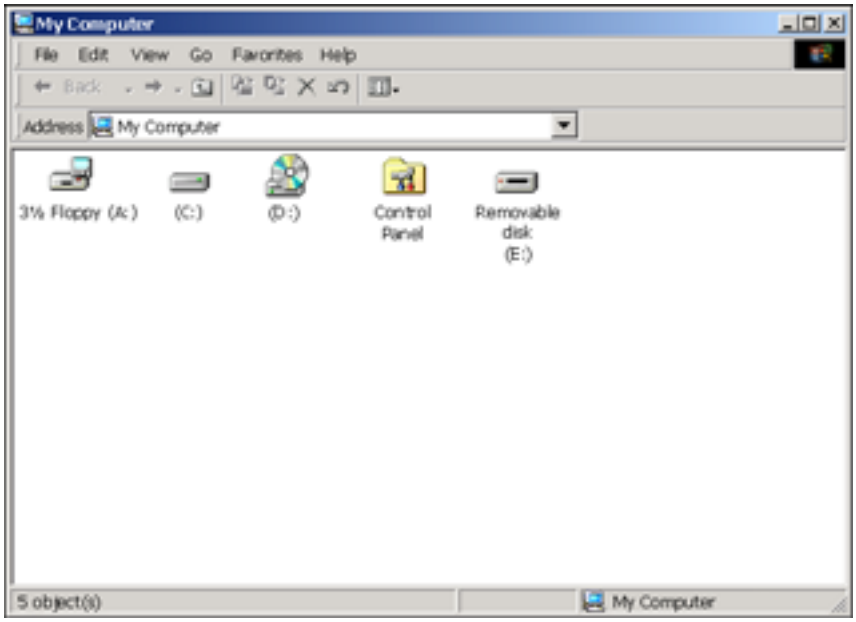
informing about the succesful connection and the USB mode choosen.

- ✓ *Using a Mac computer and recalling the Dir function on Galileo, on the instrument display will be shown four folders named “Desktop folder”, “The volume settings folder”, “Trash” e “—Move & Rename”.*
  These are system folders that will not be displayed when controlling the contents of the memory card with the computer.
- ✓ *To extract the memory card from Galileo when it is connected to a Macintosh computer, it is necessary to select the “Eject” command and extract quickly the card. This command is available by clicking on the Galileo icon with the* CTRL *key pressed.*

USE OF A COMPUTER TO MANAGE FILES STORED IN GALILEY MEMORY

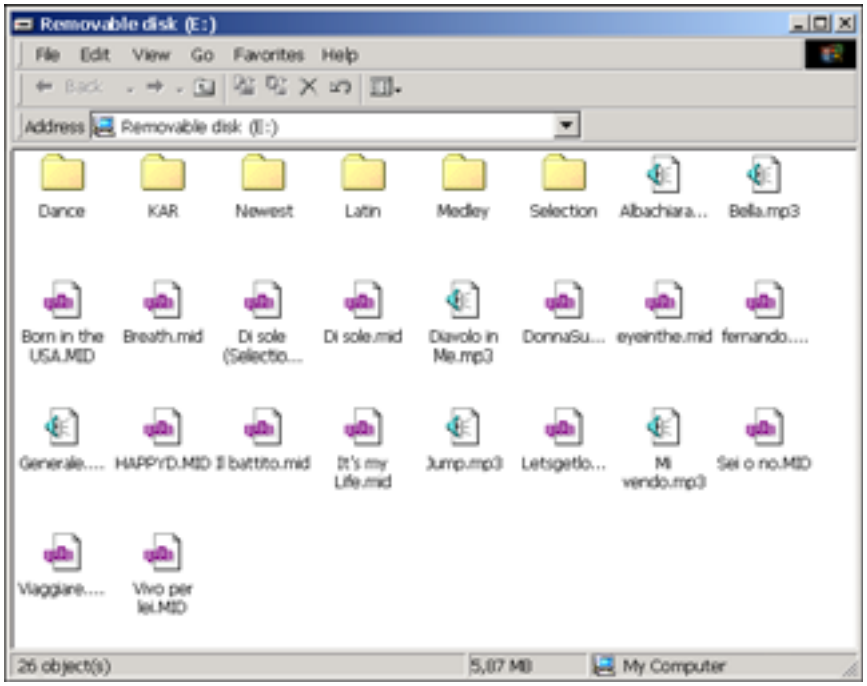
Once installed the necessary drivers to manage the memory card, the use of Galileo with the computer is very intuitive and simple. The O.S. manages the Galileo as a “Removable disk” unit.

Clicking on “My computer”,



all devices installed will be shown, including the “Removable disk”.

The “Removable disk” is Galileo. Click on the icon to see immediately the content of the card.

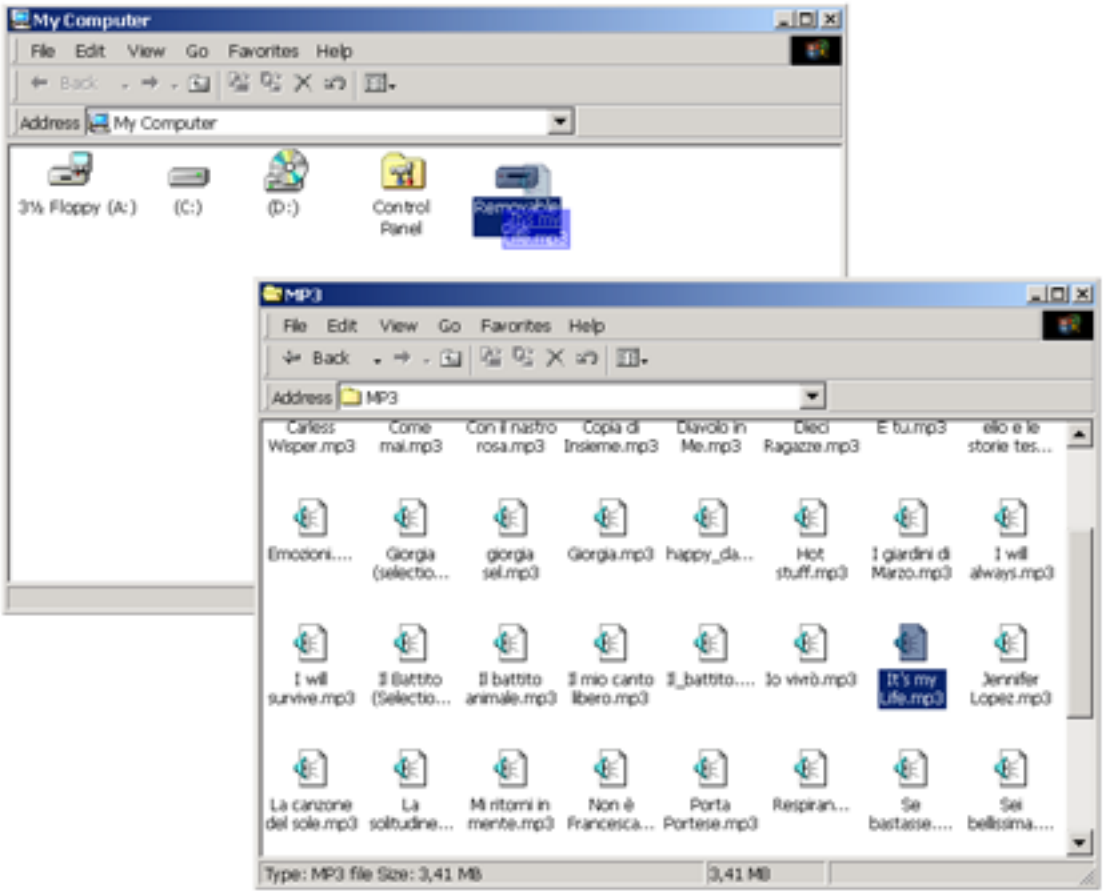


In case other subdirectories are present just click as usual on their icons to see the contents. Now you can copy files from the computer to Galileo memory card, erase them or create/ cancel folders.
Of course if a proper program is installed it will be possible to reproduce and listen thru the computer the MIDI and MP3 files of Galileo.

During any operation with the computer, the monitor will show the relating messages.
On Galileo, the **[SAVE]** key LED will blink.
Due to the characteristics of some OS it may happen that the “Copy in progress” message box disappears before the **[SAVE]** key LED stops to blink. In this case avoid to disconnect the USB cable and to extract the card until the LED goes off (this because the operation is still in progress).

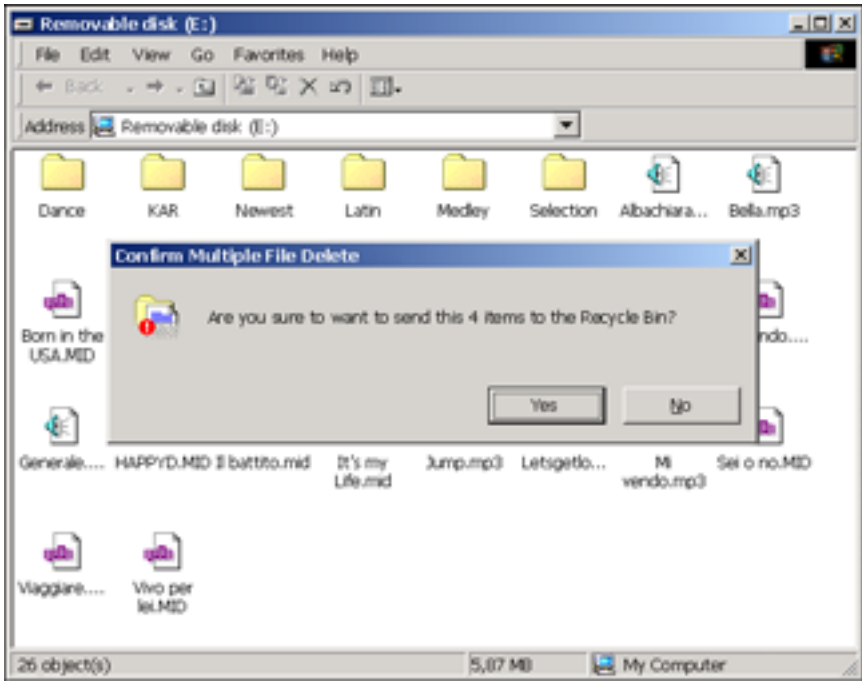
COPY OF FILES FROM COMPUTER INTO GALILEO MEMORY CARD

To copy one or more files into Galileo it is necessary to select the files (or folder) on the computer hard drive, and drag them into the “Removable Disk” icon. Of course it is possible to use the “Copy” and “Paste” commands (recall them clicking with the right mouse click) or the CTRL + C and CTRL + V keyobard keys.



ERASING FILES OR FOLDERS FROM GALILEO MEMORY CARD

Select the “Removable Disk” icon, then the desired files or folder. Use “Delete” command, or the key.



CREATING NEW FOLDERS IN THE GALILEO MEMORY CARD

Select the “Removable disk” icon (o a folder stored in it) and use the “New” command (in the window that can be showed by right mouse button):

then “Folder”.

A “New Folder” will be created. Change the name as desired and press ENTER.
It is possible to create subfolders (folder which contains folders), please note that Galileo accepts a maximum of 5 levels of sub-folders.

NOTES

- ✓ *Using the NORMAL USB mode, in case of errors using the memory card, the OS may show up messages not properly related to the error occurred. To know the exact cause of the error, check the Galileo display and the messages here reported (for more informations see the “Error messages” chapter).*
- ✓ *It is not possible to copy more than 512 files in the “Root” directory and in any other folder.*
- ✓ *Using a Mac computer, it may happen that, after having inserted a memory card into Galileo, the icon does not appear on the computer desktop . In this case it is necessary to extract and reinsert the memory card.*
- ✓ *To grant a good management of the memory cards, we suggest to format them with Galileo (see “Card Informations” chapter).*
- ✓ *Using Windows98 SE, after having extracted a memory card which can already be inside, it’s advisable to wait at least for 7 seconds to insert a new one.*

MIDI FILE EDIT FUNCTIONS

Galileo provides some useful MIDI files editing functions, that are available by pressing the buttons of the MIDI SONG SETTINGS section.
These functions are all on real time, therefore performable during a song playback.
They offer the great advantage to be extremely quick and really helpful to modify a song while playing it.

These functions are:

- **TRANSP:** it allows the user to change the key of the selected song.
- **MUTE:** it allows muting of a track (exclusion of a track).
- **TEMPO:** it allows to change the metronome tempo.

To recall these functions press the proper key (both in play or stop mode).
The display will show the setup video page related to the selected function: the LED of the key will start blinking, to show that internal parameters of the function are in editing situation, but the function hasn't yet been applied to the file.
Press **[ENTER]** and the new parameters will be activated: the song will play following the new settings.

To deactivate the function, press the function key again.

The modifications made as above described, do not change the MIDI data stored into the memory card, but just the way how they are played back from Galileo.
It is possibile to store the editing parameters of each song: in this case, when a song is recalled, the user settings will be applied.
Please refer to the "SAVE GALILEO SETUP ON THE MEMORY CARD" chapter.
Plase check also the "SONG PLAYBACK MODE" chapter for other useful information.

NOTE

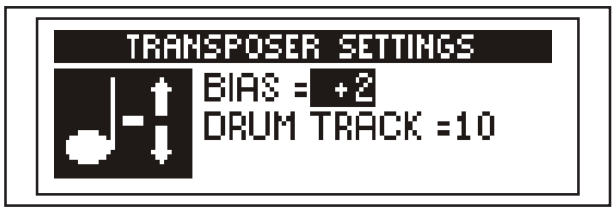
✓ *These functions are not available for MP3 files. Please be careful in using these function in MIDI files containing MP3 files.*

Here below the details of each MIDI SONG SETTINGS function.

TRANSPOSE FUNCTION

This function allows to modify the key of the song being played, in other words to transpose an exact number of semitones (half tones) on all the tracks (MIDI channels) except the one containing the drum sound.
This track (normally the n.10, named **DRUM TRACK**) must not normally be transposed as this may cause the playing of drum timbres different from those previously chosen or selected which might interefere with the beat of the musical backing.

By pressing **[TRANSP.]** the display will show the editing video page:



where the following parameters are reported:

- **BIAS:** It sets the value of transposition (semitone)
- **DRUM TRACK:** It sets the drum track which has to be played

After having set up your chosen settings, press **[ENTER]** to confirm and activate them or **[ESC]** to abort the operation. In both cases Galileo will show back the main video page.

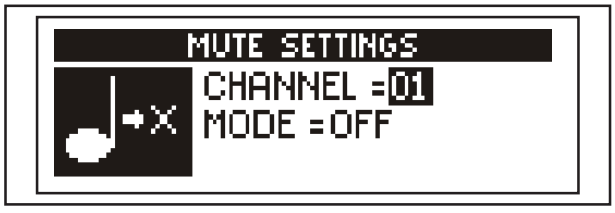
To deactivate the transposer function press the **[TRANSP.]** or **[ESC]** keys (the led will switch off). In both cases the display will show the main page.

If you desire to show or modify the transpose parameter when the function is active, press and hold down the **[TRANSP.]** button.

MUTE FUNCTION

The MUTE function allows, while playing a song, to reduce the velocity (and therefore the volume) or completely mute (remove) one or more instruments (tracks) from the playback.

To activate the function press the **[MUTE]** key, the display will first show the configuration page:



which contains the following parameters:

- **CHANNEL:** It selects the one of the 16 tracks the mute is to apply to; in other words th "signals "
- **MODE:** to select the MUTE mode:
  - **OFF:** it showst hat the track is played the track is played
  - **HALF:** it shows that the track is played at half volume
  - **ON:** it shows that the track is muted

Press **[ENTER]** to activate the function or **[ESC]** to cancel the aborted operation.

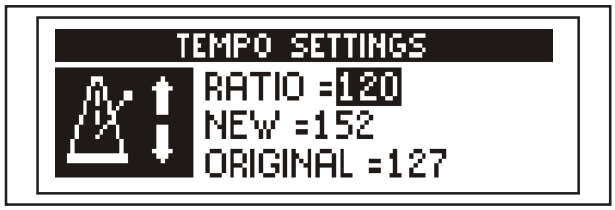
In both cases the display will show the main video page.

If you wish to check and/or modify the Mute parameter while the function is active, press and hold down the **[MUTE]** key.

To deactivate the mute function press the **[MUTE]** key (the led will switch off).

TEMPO (CHANGE) FUNCTION

The TEMPO function allows the user to vary the metronome tempo of a song being played. By pressing the **[TEMPO]** button the Galileo display will show the following video page:



These are the configuration parameters:

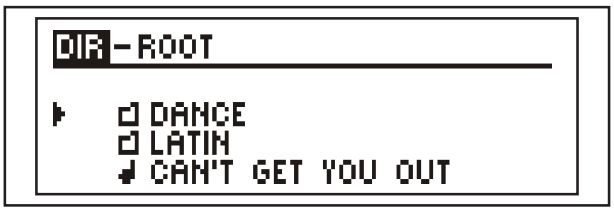
- **RATIO:** It allows you to regulate the variation not in "absolute" tempo, but of a recalculation percentage, to ensure proportional variation in the performance of the song, features rallentados or accelerandos. If the ratio is set at 200%, the new tempo will be twice the original one while if the ratio is set at 50%, the new tempo will be the half.
- **NEW:** It displays the new tempo value.
- **ORIGINAL:** It displays the original tempo value.

Once the desired settings are made, press again **[ENTER]** to activate them.
If you wish to cancel the new values press **[TEMPO]** or **[ESC]**.
In both cases the display will show back the main page.

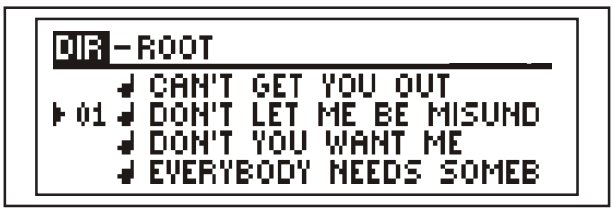
If you wish to check and/or modify the Tempo parameters while the function is active, press and hold the **[TEMPO]** key.

THE LIST

The Galileo allows you to create pre-arranged sequences of songs, both MIDI or MP3, also if stored in different folders. However, when the instrument is switched off these sequences are lost. To prevent this, these programs can be saved in the form of List files. To program a LIST, first of all, you have to display the memory card contents by pressing **[DIR]**:



Using the **[UP]** and **[DOWN]** keys (CURSOR section), move the cursor on the first song you want to add to the list and press **[SELECT]**.
A small progressive number will be displayed near the file name:



This number indicates the song position inside the LIST.
Execute the above procedure to insert all desired songs, also if stored in different folders.
The “LIST” icon is displayed, informing that a list is being processed.
To deselect a file inserted in a list, it is enough to place the cursor on the desired song and press again **[SELECT]**.

Once the list programming has been completed, press **[ENTER]** to confirm or **[ESC]** to cancel the selections. If confirmed the system will load the first song:

and will show the main page:

indicating that a List (not a single song), is really running.
Now press **[PLAY]** and Galileo will start the playback; once the song is terminated (by itself or pressing **[STOP]**) the second song will be loaded and played, then the third one and so on.

By pressing **[STOP]** for some seconds, it will be possible to stop in a definitive way the LIST playback.

To verify or edit in every moment the list contents (also during the playback) press the **[LIST]** key.

If you need to change the position of a song inside a list, select the desired song using the encoder knob, and then select the new position with the **[UP]** and **[DOWN]** keys.

By pressing **[SELECT]**, the selected song will be removed from the list.

To remove all songs from a list previously programmed, press and hold down the **[LIST]** key. The display will show:

press **[ENTER]** to confirm or **[ESC]** to cancel.

NOTES

- ✓ *In the PLAY MODE section, you can edit the start mode of the songs programmed in a list (see also "SONG PLAYBACK MODE").*
- ✓ *The "LIST" field at the top right corner of the display is not shown if the list contains just one song.*
- ✓ *To learn more about the Galileo messages during song playback, please see also "INFO MESSAGES" and "ERROR MESSAGES".*

SAVING A LIST

To save a previously programmed list press **[LIST]** and, when the contents is shown, press **[SAVE]**.
The system will ask for a List name:

Use **[SELECT]** and/or **[BACK]** keys to move the cursor and **[UP]**, **[DOWN]** or the encoder to insert the desired characters.

To save the LIST in another directory press **[DIR]** key and select the desired folder.

Press **[ENTER]** to start saving. During the save process, the display will show:

WARNING!!

- ✓ *Due to the USB interface features,if Galileo is connected to a computer, it will not be possible to save data into the memory card. In this case the following message will be shown:*

At this point disconnect the USB cable and repeat the saving procedure.

- ✓ *When Saving a list with an already saved, the system will automatically rewrite the original file.*

QUICK FILE SEARCH

Using the FILE ENTRY function, you can search for a specific element inside the memory card (such as a MIDI / KAR file, a MP3 file, a list or a folder), without scrolling the content of all the memory card.

Press and hold down the **[DIR]** key, the Galileo display will show:

Now, using the encoder and the **[UP]** and **[DOWN]** keys, insert the first letter of the word to be found. Use **[BACK]** and **[SELECT]** keys to move the cursor and add more letters.

For example, by inserting the “F” letter, Galileo will find all the files which name starts with “F.” If you already know the enteire name of a file to search, you can insert it complete, so that the search will be immediate.

Press **[DIR]** and the system will start the search process:

and it will show the first file found. Press **[DIR]** again to search the next file.
Press **[ESC]** to leave the function.
At the end of the search process (no more entry found) the system will display:

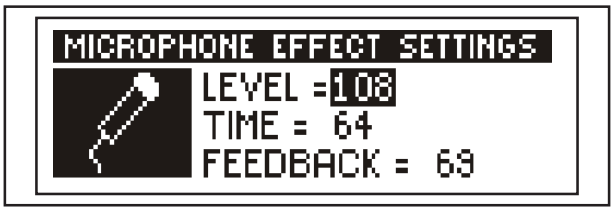
Press **[ESC]** to show again the DIR function.

MICROPHONE EFFECT

As from the description in the introductory side and in the connection description, it is possibile to connect a microphone to Galileo via the **[MIC IN]** plug.

The signal coming from the microphone can be controlled with a dedicated effect, similar to delay, and redirected to the **[LINE OUT]** and **[RGB VIDEO OUT]** outputs.

To control this effect press **[MIC.]** key, in the AUDIO section of the control panel.
The following screen will be shown:



where the following configuration parameters are present:

- **LEVEL:** it trims the effect level.
- **TIME:** it sets the repeat duration.
- **FEEDBACK:** it sets the decay time.

Once the necessary checks are made press **[ENTER]** to confirm and store the new values or **[ESC]** to cancel them.

EQUALIZER

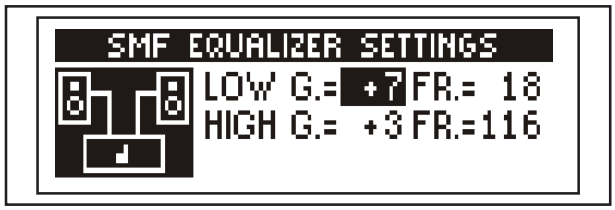
Galileo is provided with two internal equalizers to control the sound generated from the MIDI tracks and the MP3 files.
The EQ for the MIDI tracks is a two band semi-parametric, while the one for MP3 files is a two band graphic with anti-clipping system.

To access the two EQ screens press **[EQ.]** in the AUDIO section on the fromt panel:

MIDI FILES EQUALIZER

As explained above, the EQ for the MIDI tracks is a two band semi-parametric device.
A parametric eq allows both the control of gain into specific frequencies as well as but also to select the work frequencies themselves.

Before accessing the control parameters select **AUDIO MIDI FILE** in the previously described screen. The display will show:



These are the control parameters:

- **LO G:** it controls boost or cut of low frequencies with a range of ± 12 dB.
- **FR.:** it set the central work frequency for the LOW EQ in a range from 0 Hz (FR=0) to 4,7 KHz (FR=127).
- **HIGH G:** it controls boost or cut of high frequencies with a range of ± 12 dB.
- **FR.:** set the central work frequency for the HI EQ in a range from 0 Hz (FR=0) to 18,75 KHz (FR=127).

Once made the necessary checks press **[ENTER]** to confirm and store the new values or **[ESC]** to cancel.

MP3 FILES EQUALIZER

The MP3 files EQ is graphic, with two bands, allowing the regulation of low and high frequencies.
In addition it is completed with an anti-clipping system, that is controllable with 3 different setups, in order to avoid signal saturation.

To access the parameter regulation screen select **AUDIO MP3** in the eq selection screen:

These are the control parameters:

- **BASS:** it controls boost (positive values) or cut (negative values) of low frequencies with a range of ± 15 dB.
- **TREBLE:** it controls boost (positive values) or cut (negative values) of low frequencies with a range of ± 15 dB.
- **ANTI CLIP:** it sets the anti-clip system modes. The anti-clip reduces the higher signal peaks: it is possible to deactivate it (select **OFF**) or set three different attenuation modes: minimum (**MIN**), medium (**MED**) o max (**MAX**).

Once the necessary checks are made press **[ENTER]** to confirm and store the new values or **[ESC]** to cancel them.

SAVE GALILEO SETUP ON THE MEMORY CARD

Galileo offers the possibility of saving, for each MIDI or MP3 file, all setup information collected into the MIDI SONG SETTINGS, AUDIO and VIDEO sections, and recall them automatically at any time when a song is loaded.

As stated before, these functions are related to the type of file which have been loaded. Therefore for each MIDI file it will be possible to save:

- All MIDI SONG SETTINGS functions
- Microphone setup
- EQ setup (for the specific MIDI file EQ)
- Video setup

For an MP3 file it will be possible to save:

- EQ setup (for the specific MP3 file EQ)
- Microphone setup
- Video setup

If we are working with a MIDI file containing MP3 tracks it will be possible to select all the above described options.

In case of saving procedure of MIDI file settings all saving operations will create a .INI file in the memory card, or alternatively a .TXT file if we need to save the MP3 functions.
For an easier search, these info files will have the same name of the song.
These file can be successively saved and modified with any text editor that you have in your computer; by this way it will be possible to modify without executing any other saving procedure.

To save all desired presets first of all load the desired song, then modify the parameters and press **[SAVE]** key. At this point the display will show:

SAVE which is a parameter that allows to select the saving options.

In case of a MIDI file it will be possible to select:

- **SMF PARAMETERS:** which relate to all parameters of the MIDI SONG SETTINGS section functions, therefore:
  - Transpose
  - Mute
  - Tempo

- **SMF & AUDIO:** which relate to all parameters of the MIDI SONG SETTINGS as well as to AUDIO sections functions, therefore:
  - Transpose
  - Mute
  - Tempo
  - Microphone
  - MIDI Equalizer

- **SMF & EQUALIZER.:** which relate to all parameters of the MIDI SONG SETTINGS and MIDI EQ sections functions, therefore:
  - Transpose
  - Mute
  - Tempo
  - MIDI Equalizer

- **SMF & MICROPHONE:** which relate to all parameters of the MIDI SONG SETTINGS and MICROPHONE sections functions, therefore:
  - Transpose
  - Mute
  - Tempo
  - Microphone

- **AUDIO:** which relate to all parameters of the AUDIO section functions, therefore:
  - Microphone
  - MIDI Equalizer

- **SMF & VIDEO:** which relate to all parameters of the MIDI SONG SETTINGS and VIDEO sections functions, therefore:
  - Transpose
  - Mute
  - Tempo
  - Video (except CENTER andAUTO-AV parameters)

- **VIDEO:** which relate to all parameters of the VIDEO section functions, therefore.

- **ALL (SMF):** which relate to all parameters related to MIDI files, therefore:
  - Transpose
  - Mute
  - Tempo
  - Microphone
  - MIDI Equalizer
  - Video (except CENTER andAUTO-AV parameters)

In case of an MP3 file it will be possible to save:

- **EQUALIZER:** which controls the parameters of the MP3 equalizer.
- **MICROPHONE:** which controls the parameters of the microphone.
- **AUDIO:** which controls all the parameters of the AUDIO section, therefore:
  - Microphone
  - MP3 Equalizer
- **VIDEO:** which controls all the parameters of the VIDEO section.
- **ALL (MP3):** which controls all parameters related to MP3 files, therefore:
  - Microphone
  - MP3 Equalizer
  - Video (except CENTER andAUTO-AV parameters)

To complete the saving of the selected parameters press **[ENTER]**. During data writing, the following message will be displayed:

and then the system will display again the main page.

NOTES

✓ *While Galileo is connected to a computer it is not possible to make any saving operations. In this case the display will show:*

Then disconnect USB cable and repeat the operations.

✓ *Once the "Save" operation has been completed a .TXT o .INI file will be created, with the same name of the MIDI or MP3 reference file but with a name length composed by a max of 8 characters.*

✓ *All operations related to the parameter modifications included in the .TXT or .INI files are listed in the Advanced User Guide.*

GLOBAL SETTINGS

By pressing the **[GLOBAL]** key, in the SET-UP section of the front panel, it is possible to access to all global settings to setup and customize the instrument adjusting it to your needs.
These settings will take care of:

- Display contrast setup (**DISPLAY CONTRAST**)
- Setup of song playback mode (**PLAY MODE**)
- System setup (**SYSTEM**)

After having pressed the above descripted key, the display will show the **GENERAL SETTINGS MENU** screen (we will name it from now on GLOBAL menu):

To recall a desired function, first of all, select the correspondent field with the **[CURSOR]** keys and then press **[ENTER]**. To trim the value use the rotary encoder.
Once the necessary checks are made, press **[ENTER]** to confirm and store the new values or **[ESC]** to cancel and reset everything and recall the previous values.

DISPLAY CONTRAST

Galileo display has a contrast control in order to obtain the best readability if the user is in different positions toward the display.
To access to this control select **DISPLAY CONTRAST** from the Global menu and press **[ENTER]**, the display will show the screen:

that contains the following fields:

- **CONTRAST:** which shows the display contrast value.
- **REVERSE:** which recalls the display reverse mode. Select **NO** to see the display in standard mode or **YES** to see it in reverse mode.

STANDARD mode

REVERSE mode

SONG PLAYBACK MODE

When selecting the **PLAY MODE** field in the Global menu, the following screen will be shown:

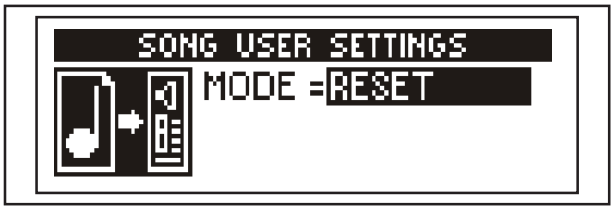
Please note that this screen does not contain programming parameters but a sub-functions menu, that are used for song playback. These settings are:

- Transpose, Mute and Tempo functions activation mode (**SONG USER SETTINGS**)
- List (and list's songs) playback modes (**START MODE**)
- Pedal settings (**FOOT SWITCH ACTION**)

USER SETTINGS

Through this function it is possible to set the instruments working when an .INI (SMF parameters) or .TXT (MP3 parameters) file is present. These files are created from Galileo after a "Save" operation (for more informations see chapter "SAVE GALILEO SETUP ON THE MEMORY CARD").

When selecting **SONG USER SETTINGS**, the following screen will be shown:

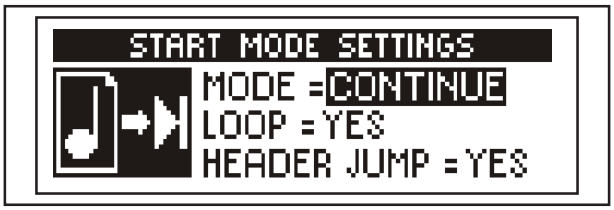


In this screen the **MODE** parameter is present. This parameter can be set as follows:

MODE	MIDIFILE	FILE .MP3
FILE-HOLD	If a file .INI is not in the memory card, the MIDI SONG SETTINGS functions mode will be unchanged	If a file .TXT is not in the memory card, the MP3 parameters values will be unchanged
FILE-RESET	If a file .INI is not in the memory card, the MIDI SONG SETTINGS functions mode will be disabled	
HOLD	The MIDI SONG SETTINGS functions mode will be unchanged even in the presence of a .INI file	If a file .TXT is also in the memory card, the MP3 parameters will be unchanged
RESET	All the MIDI SONG SETTINGS functions will be disabled even in the presence of a .INI file	

START MODE SETTINGS

The video page that is displayed when selecting the **START MODE** contains all the parameters to configure the list execution mode, and the song header skip function settings.



These are the parameters:

- **MODE:** it sets the playback mode of the songs loaded via a list. By selecting **SINGLE**, after having loaded the next song the system will wait a click on the **[PLAY]** key to start the playback of the new song. By selecting **CONTINUE** the next song will be played automatically.
- **LOOP:** when the last song of a list has been completed, it specifies if the system will playback the first song again (by selecting **YES**) or stop (by selecting **NO**).
- **HEADER JUMP:** by selecting **YES**, it specifies if you may to skip the header MIDI data (normally they are placed before the first note or the first lyrics letter).
  This function has the great advantage of loading at a great speed the sound generation setup messages without any need to wait for the first empty music measures before starting the playback.

FOOT SWITCH SETTINGS

This function allows to assign a command to the footswitch pedal conneted to the **[FOOT]** plug on the back panel. To recall the screen, select **FOOT SWITCH ACTION**:

la quale contiene i seguenti parametri:

- **ACTION:** it inserts in this field the function you want to assign to the pedal and the following are the available functions:

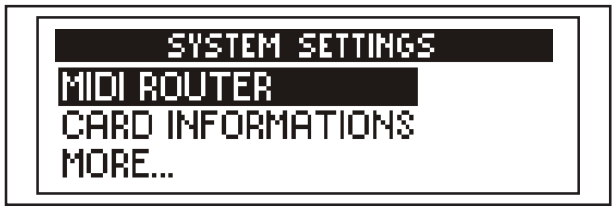
  - **PLY-STP:** which at each pedal pressure Galileo switches from Play to Stop and viceversa.
  - **PSE-CNT:** which at each pedal pressure Galileo switches on and off positions from Pause (song pause) to Continue (song restart).

- **POLARITY:** this field is necessary to inform that you must supply Galileo with inputs and info relating to the kind of pedal which is connected to :

  - **-:** normally open (N.A.)
  - **+:** normally closed (N.C.)

SYSTEM SETTINGS

The video page **SYSTEM SETTINGS** is displayed when the **SYSTEM** command is selected,



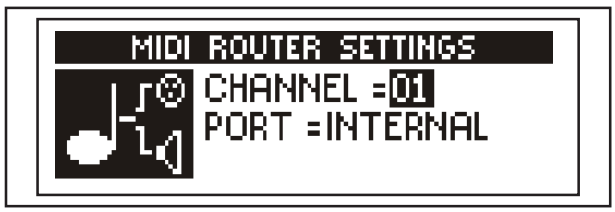
and it contains all functions not strictly connected to song playback, but for example to obtain informations or configurate the Galileo accessory settings.
The available functions are as follows:

- MIDI data output port selection (**MIDI ROUTER**)
- Informations on the memory card and its format (**CARD INFORMATIONS**)
- Language setting (**MORE…**)
- USB mode setting (**MORE…**)
- Installed firmware informations (**MORE…**)

MIDI ROUTER SETTINGS

Router MIDI intendsto be the possibility to specify if the data contained in a single track (to which corresponds a specific MIDI channel) must be transmitted to the internal sound generation board or to the **[MIDI OUT]** port on the back panel.

Selecting **ROUTER MIDI**, it will be possible to see the setting screen:



With the **CHANNEL** command you can select, via the rotary encoder, the track (from 1 to 16) where you want to address the contents.
On the **PORT** field the actual link will be displayed. The channel-output links are described on the next page.

- **INTERNAL**: the data of the selected track are sent exclusively to the internal sound generator.
- **EXTERNAL**: MIDI data of the selected track are sent **exclusively to the [MIDI OUT] port.**

ATTENTION!

✓ *Remember that selecting EXTERNAL option for a specific track, this track cannot be played from the internal sound generator.*

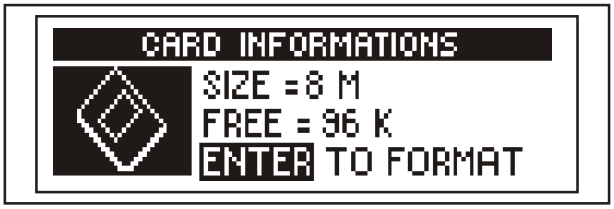
CARD INFORMATIONS

The CARD INFORMATION function allows to be continuously updated with information regarding the memory card total capacity and the remaining free space.

This screen contains also the format function for the memory card.

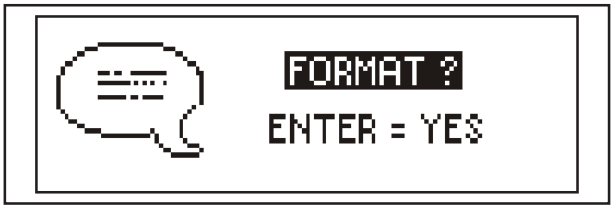
It is advisable to format the cards with the computer, because this type of format allow a larger storage space for your files.
Use the Galileo function when the card has some errors and the computer is not able to perform the formatting.

To recall the function simply select **CARD INFORMATIONS**, the display will show the followng screen:

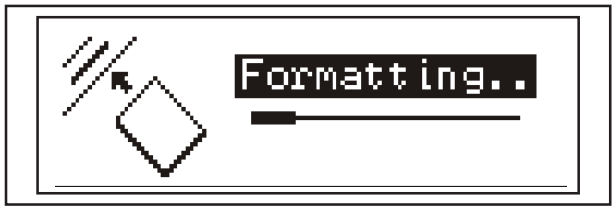


- **SIZE:** it shows, in MByte, the total capacity of the inserted memory card.
- **FREE:** it informs about the free space, in KByte

As displayed, by pressing **[ENTER]** key, it will be possible to format the memory card. In this case the display will ask you to provide a further confirmation:



Press **[ENTER]** to continue or **[ESC]** to cancel. In case of confirmation, the following screen will be displayed:



as long as it is required to complete the formatting procedure.

ATTENTION!

- ✓ *Remember that all the data in the memory card will be lost when you format it.*
- ✓ *If you proceed to format from the computer, pay attention to preset the File System as FAT type.*

NOTES

- ✓ *The load time will be slightly longer if the card has been formatted with the computer.*
- ✓ *The cards formatted thru Galileo will be named “Galileo”. This way, using a Mac computer (not a PC) the “No title” icon will be displayed with Galileo name.*
- ✓ *If Galileo is USB cable connected to the computer, the connection will be momentarily disabled during the format process.*
- ✓ *When a format has been completed thru a PC, it is advisable to pull the memory card out of Galileot and then plug it in again.*

OTHER SETTINGS

By selecting **OTHER…** it is possible to see the screen will show where to set the language and the USB mode (for more informations see chapter “FIRST SETUP”).

In addition this function allow to check the operating system and hardware versions.

The following are the displayed parameters:

- **LANGUAGE:** it selects the desired language for all display data.
- **USB:** it selects the USB mode how to connect Galileo to a computer. This setting depends on the OS installed in the computer, as follows:

  - **NORMAL:** if your computer is Windows 98 s.e., Windows ME, Windows 2000 based
  - **ADVANCED:** if you use Windows XP
  - **MAC:** if you use a Mac O.S. 9.1 (or later versions)

- **RELEASE:** It displays the software (first number from left) and hardware versions installed into Galileo.

VIDEO SETTINGS

As described in the “CONNECTIONS” chapter, Galileo is equipped with a SCART plug to connect a TV set, to display karaoke lyrics and other information regarding the playback songs.

The VIDEO menu, is accessible by pressing **[VIDEO]** key in the SET-UP section of the front panel:

contains all settings related to the TV data display, and more precisely:

- Display mode and characters size (**MODE**)
- Color selection (**COLORS**)
- Screen adjustment and auto AV selection (**CENTER - AV**)

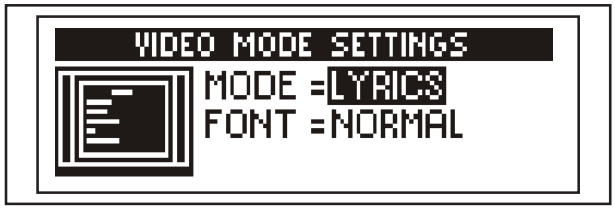
To select one of the functions use the CURSOR keys to move and press **[ENTER]** to access configuration screen.

NOTE

✓ *To get a quicker and more efficient setup of the VIDEO section, it is advisable to do the settings with the TV Set connected and during a song playback. In this way you can see your setting in real time.*

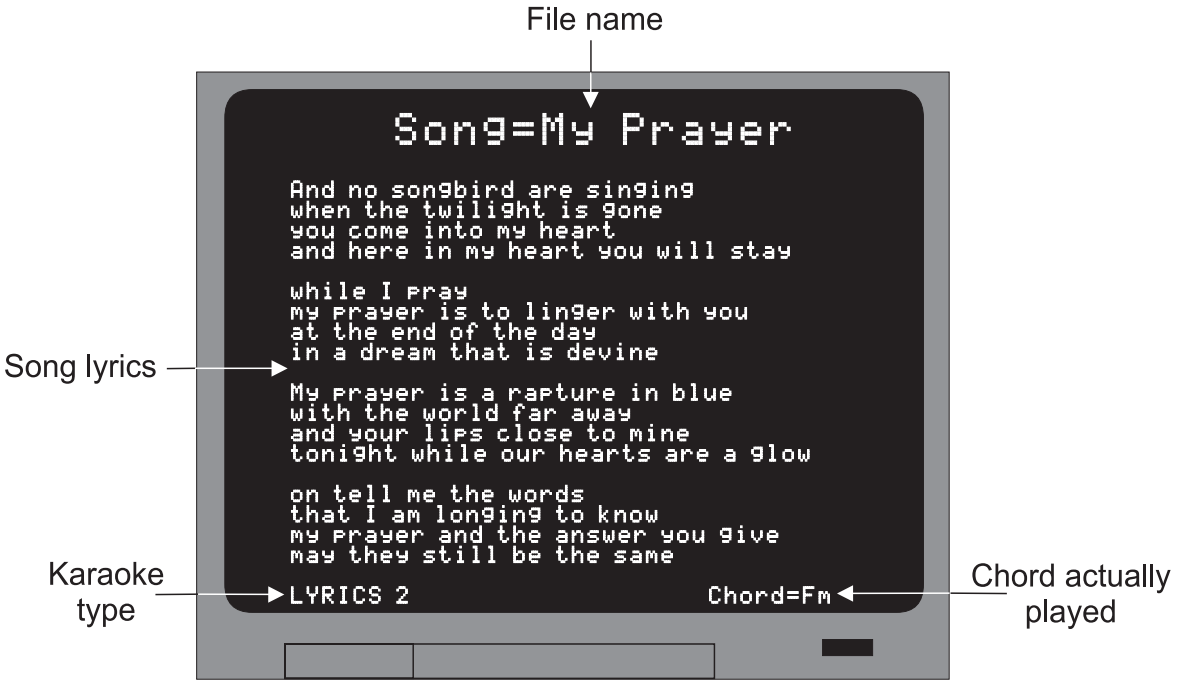
DISPLAY MODE

To set the display mode and character size, select **MODE** in the VIDEO menu.

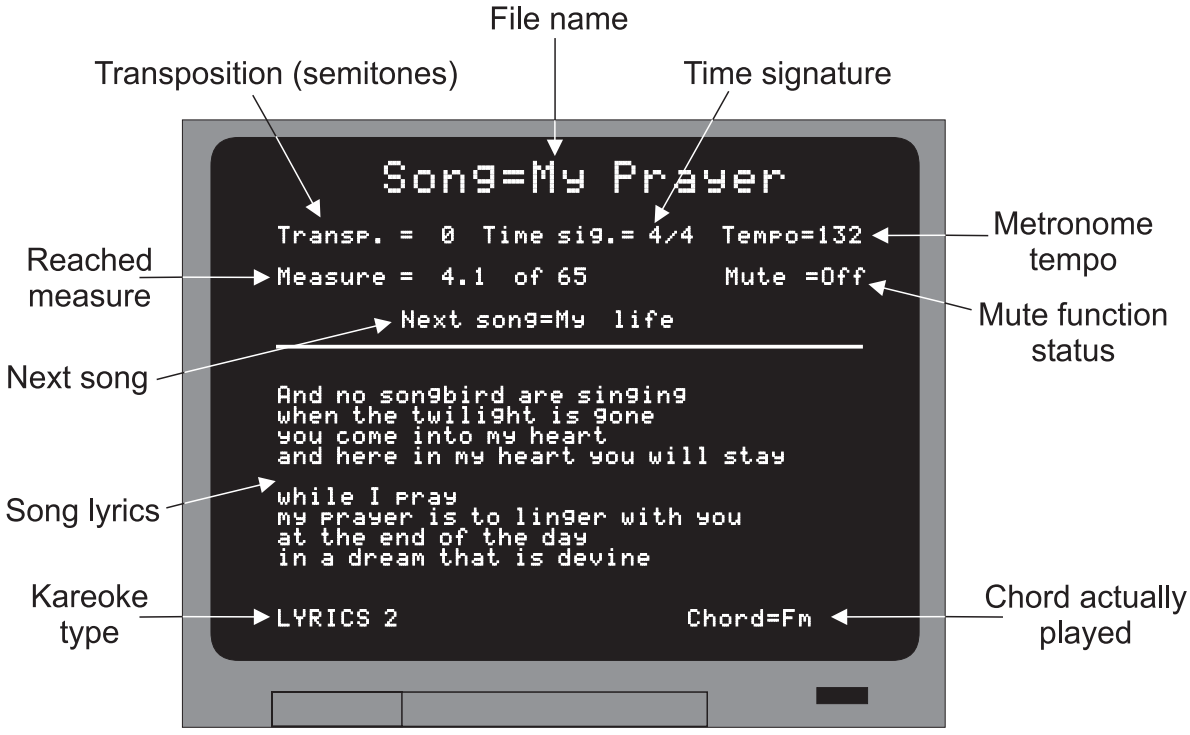


- **MODE:** it sets the display mode, actually the karaoke info you want to display on the TVset. It is possible to select:

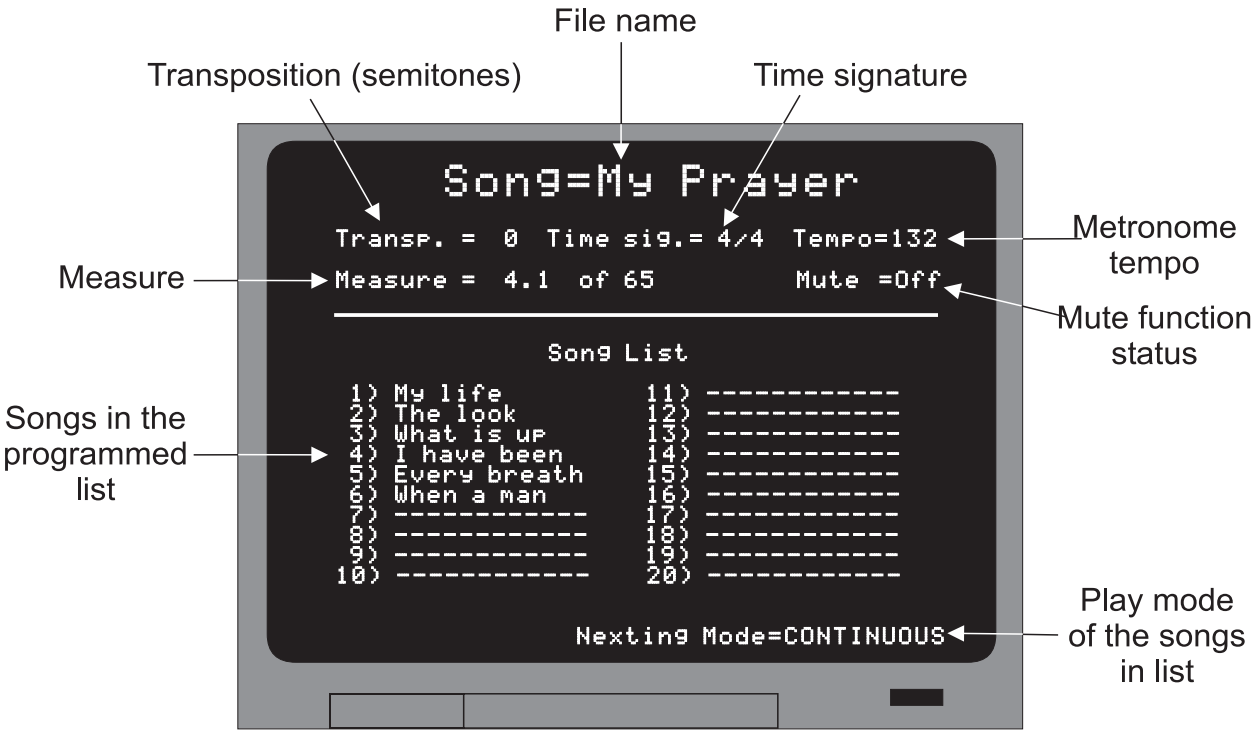
  - **LYRICS:** on the screen of the TV set only the song lyrics are displayed.


File name
Song=My Prayer
And no songbird are singing
when the twilight is gone
you come into my heart
and here in my heart you will stay
while I pray
my prayer is to linger with you
at the end of the day
in a dream that is devine
My prayer is a rapture in blue
with the world far away
and your lips close to mine
tonight while our hearts are a glow
on tell me the words
that I am longing to know
my prayer and the answer you give
may they still be the same
Song lyrics
Karaoke type
LYRICS 2
Chord=Fm
Chord actually played

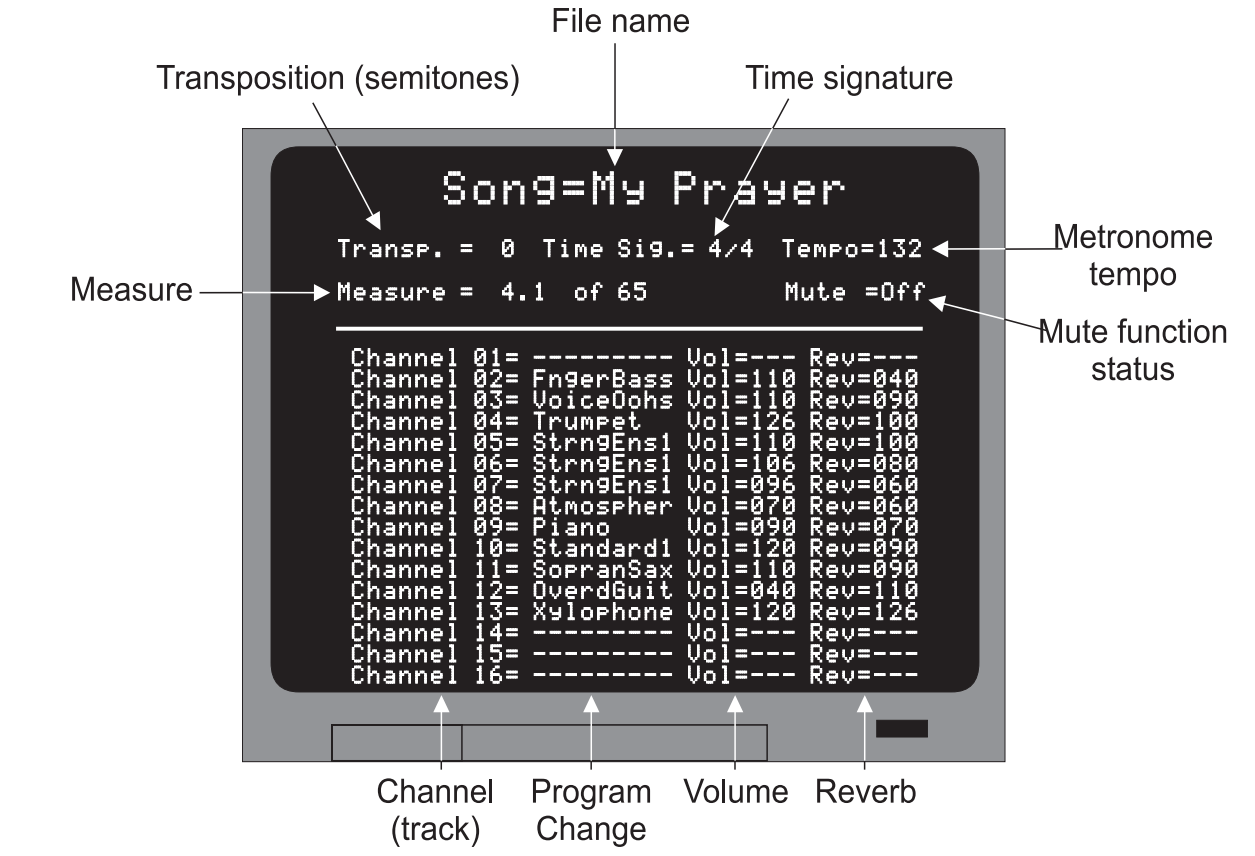
  - **MIXED:** both lyrics and song information are displayed.



- **LIST:** the content of the loaded list is displayed.


File name
Transposition (semitones)
Time signature
Song=My Prayer
Transp. = 0 Time sig.= 4/4 Tempo=132
Measure = 4.1 of 65 Mute =Off
Song List
1) My life 11) ----------
2) The look 12) ----------
3) What is up 13) ----------
4) I have been 14) ----------
5) Every breath 15) ----------
6) When a man 16) ----------
7) ---------- 17) ----------
8) ---------- 18) ----------
9) ---------- 19) ----------
10) ---------- 20) ----------
Nexting Mode=CONTINUOUS
Metronome tempo
Measure
Mute function status
Songs in the programmed list
Play mode of the songs in list

- **SONG:** all the main parameters of the loaded song are displayed.



- **FONT:** it selects the size of the fonts to display on the TV screen.

NOTE

✓ *The **LARGE** dimension is not available when one of the **LIST** and/or **SONG** modes are loaded.*

COLORS SELECTION

A further customization for the video settings is the color selection. You can actually choose the color to visualize text and song parameters on the Tv set.
It is possible to select a color for each of the parameter and the song text (already sung or to sing).

To recall this function select **COLORS**:

It is possible to select the colors for:

- **TEXT:** fixed fields, song text that needs to be sung, song text alredy sung.
- **BACKGROUND:** Tvset background.
- **SYLLABLE:** song text in syllable

ATTENTION!

✓ *If the parameters or part of the text are not displayed on the screen please check the screen colors that you have selected. It may happen for example that you selected the same color both for the background and the text.*

SCREEN CENTER AND AUTO-AV

The last setting regarding Galileo connected Tv set is the centering of the screen of the TV and the automatic selection of the audio and the video modes.

To access to this function please select **CENTER-AV**:

The following parameters are present:

- **CENTER:** this parameter allows to select one of the 16 presets to center Galileo display on the TV set.
- **AUTO AV:** by selecting **YES** it is possible to activate the automatic selection of the TV set audio video input. Therefore when you switch on the TV, it will go automatically on AV. Select **NO** to deactivate this function.

NOTE

✓ *Deactivating **AUTO-AV** option it will be necessary to manually select AV channel on the TV, to visualize the song text and/or the additional information.*

APPENDIX

FIRMWARE UPDATE

Galileo firmware is resident inside the internal instrument memory. To update it with more recent releases is very simple and easy to do.

Ensure to select the correct USB mode, that is:

- **NORMAL:** for Windows 98 s.e., Windows 2000, Windows ME
- **ADVANCED:** Windows XP
- **MAC:** Mac 9.1 (or later)

Switch off Galileo holding for some seconds the **[STOP]** key.

Now connect Galileo to the computer via the USB cable, and switch it on by keeping both the **[ESC]** and **[ENTER]** keys pressed.
The system will automatically recall the update procedure, showing it on the display:

Thru the computer copy the files into Galileo, with a normal drag and drop procedure.
During the file loading, the system will show:

When the loading is finished, the system will show:

Press now **[ESC]** to switch off Galileo and **[ENTER]** to switch it on again.

ATTENTION!

- ✓ *While loading update files, be extremely careful not to switch off either Galileo or the computer, and do not disconnect the USB cable.*
- ✓ *Do not modify the update file contents.*

SYSTEM RELEASES VERIFIY

As described above, the system informs about the firmware release actually installed thru the initial screen and the “OTHER INFORMATIONS” screen in the Global menu.

With the computer it is also possible to verify the bootstrap and preset information, clicking on the Galileo icon when the instrument is in the update mode (switch on and press keys **[ESC]** and **[ENTER]**).

INFO MESSAGES

The display screen set is completed with a series of messages that we list here.
These messages are useful to inform the user of malfunctioning or other issues (error or information messaging).

This chapter reports all information messages, normally used when the system is not able to complete a certain operation with the data on the memory card.

CARD FULL

The memory card cannot load further files. Create some free space by deleting files or use another memory card.

DIRECTORY FULL

The root directory can save max 512 files. If you are trying to save more files this message will be displayed, and the saving procedure will not be possible. Create some more free space in this folder or create and use a subfolder.

NO FILES

The ELEMENT SEARCH function did not give any result.

NO SONGS

In the inserted memory card there is no song of the selected list.

ERROR MESSAGES

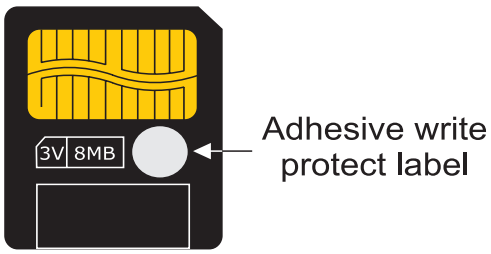
Error messages are displayed when an error occurs or has occurred in managing the memory card, or because of a system malfunction.

HARDWARE FAULT

There are some errors in the internal hardware. Please refer to a Voice Systems Authorized Service for assistance.

WRITE PROTECTED

When the memory card is protected it is not possible to store any further datas in it; then remove the protection and repeat the operation.



ILLEGAL CARD

The memory card inserted is not formatted. This error can be displayed also when, inserting a formatted card, Galileo finds some errors in the main sector. In this case, try to pull and reinsert the memory card, or repeatedly switch off and on Galileo.

INVALID FILE

The selected file is not a MIDI, KAR, MP3 file, or has some errors and cannot be performed.

ILLEGAL ADDRESS

The file memory address is wrong.
Correct the error and make a file copy.
This error can be also displayed when, in the case of the copy of one or more files, there is an attempt to load a song while you are writing it.

FILE TOO BIG

The internal Galileo memory reserved to MIDI files allows to load files with a maximum size of 320 KByte each.
This message is displayed when a selected file exceeds this limit.

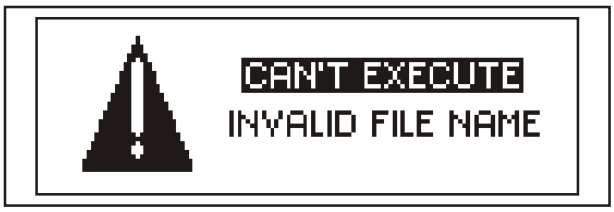
READ ERROR

Some errors occur in opening a file.
The file can be damaged. Try to correct the error executing a copy of the file in the memory card.

WRITE ERROR

The system is not able to store data into the memory card. The card can be damaged. Try to correct the errors by using the formatting procedure thru Galileo.

INVALID FILE NAME



The name of the selected file is wrong.
Try to correct the error making a copy of the file in the memory card.

TROUBLESHOOTING GUIDE

PROBLEMS	POSSIBLE REASONS	SUGGESTED POSSIBLE SOLUTIONS
PROBLEMS WITH GALILEO		
The instrument doesn't switch on	Lack of switch on command	Press and hold the [ON] button down
	Lack of mains supply	Check that the power supply unit is connected to the main supply and to the Galileo
	Power Supply troubles	The power supply unit is broken or, if not certified for Galileo, it may not work properly
	Boostrap failure	Contact or take directly Galileo to an Authorized Service Center
No sound is heard by reproducing a MIDI file	The slider [BALANCE] is set on MP3	Adjust the slider to middle range or MIDI
No sound is heard by reproducing an MP3 file	The slider [BALANCE] is set on MIDI	Adjust the slider to middle range or MP3
Playing back a MIDI file, the audio output signal is in distortion situation	The MIDI File equalizer is set at too high gain values	Reduce the equalizer gain
Playing back a MP3 file, the audio output signal is in distortion situation	The MP3 File equalizer is set with high gain values	Reduce the equalizer gain or use the Anti-Clip function
Distortion in microphone sound. The Led [OVL] lights up	The input gain of microphone signal is too high	Reduce the input gain using the [GAIN] potentiometer
The microphone signal is weak	The input gain of microphone signal is too low	Increase the input gain using the [GAIN] potentiometer
	The microphone might be either broken or of low quality	Replace the microphone
	The microphone connection to Galileo is unbalanced	Use a balanced connection

Weak headphones signal	The [PHONES] output signal level is adjusted with low values	Increase the headphones signal level (see par. "Using headphones")
	The headphones impedance is not right for a proper use with Galileo	Use headphones with a minimum impedance of 16 Ohm
Inserting a memory card, the "Illegal card" error message is displayed	The memory card is not formatted or has serious faults in the main sectors	Eject and re-insert the memory card or format it
Is displayed the "File too big" error message by selecting a MIDI File	The loaded MIDI File has a size larger than 320 KBytes	It is not possible to load a MIDI File with a size larger than 320 KBytes
Recalling the DIR function, wrong characters and file / folder names are displayed	The DIR function is recalled while the file copy is not completed	Wait until the file copy has been completed (the [SAVE] Led is switched off). If it doesn't work, eject and re-insert the card
Loading a song the "Illegal address" is displayed	During a file copy, you are trying to load a not completely stored file (the [SAVE] Led is still blinking)	Wait for the file copy completing (the [SAVE] Led is switched off).
	The memory card could be broken	Try to copy the file again or format the card
Some MIDI File tracks are not reproduced	The MIDI Router is set in EXTERNAL for some tracks	Check the MIDI Router setting all tracks in INTERNAL (see par. "Global settings - System settings")
The MIDI SONG SETTINGS functions are not available	An MP3 file is selected	The MIDI SONG SETTINGS are available with MIDI File only
When a new song is loaded, the MIDI SONG SETTINGS functions are disabled	The FILE-RESET or RESET modes are selected	Select the desired mode (see par. "Global settings - Song playback modes")
The saved song settings are not activated	The mode HOLD is selected	Select the desired mode (see par. "Global settings - Song playback modes")
When a MIDI File is loaded, the measure counter doesn't start from 1	The HEADER JUMP function is activated	Disable the function (see par. "Global settings - Song playback modes")

Impossibility to stop the play back function of a songs list	The LOOP function is activated	Press and hold down the [STOP] button and check the play list mode disabling the LOOP function (see par. Global settings - Song playback modes")
Saving the settings (SAVE function) the "USB connected" message is displayed	It is not possible recalling the SAVE function while Galileo is connected to a computer	Disconnect the USB cable
The free space in the memory card showed by Galileo doesn't match to the one showed by the computer	The memory card is formatted by Galileo. Galileo formats the cards according its features and with a slight difference compared with the computer format. This can make this small difference in the free space calculation	
The Global and Video settings are not stored when switching off Galileo	The instrument has been switched off without pressing the [OFF] button, but it has been disconnected immediately by pulling the plug or the power cord	Switch off Galileo by pressing and holding down the [OFF] button
Galileo doesn't switch off	Lack of switch off command	Press and hold down the [OFF] button. Then press [ENTER]

PROBLEMS WITH PERSONAL COMPUTER (Windows operating systems)		
When doing the first time connection, the computer doesn't require / install the drivers (USB connection not actived)	The USB cable / connector is not connected	Connect the USB cable
	The USB cable is broken	Replace the USB cable
	Galileo is not switched on. The memory card is not inserted	Switch on the instrument
During the drivers installation for Windows 98, the operating system freezes in a blue screen (Fatal Excpetion error)	The "Control Panel" settings are wrong.	Open the "Control Panel" and disable the "Use automatic settings" for the USB Host Controller.
	The BIOS settings are wrong	Check that both the "USB Keyboard", "Legacy USB Support" and "Assign IRQ for USB" BIOS functions are enabled. If problems are still unsolved please contact a PC service center
	The actually installed BIOS version doesn't manage the USB peripherals	Update the BIOS version
	Probable conflicts with others peripherals	Check possible peripherals conflicts by using the "Control Panel"
	Probable conflicts with CD burning unit	Remove or update the drivers of the device that generates conflicts
Windows 98 freezes when extracting the memory card from Galileo	The memory card has been extracted before completing file copy / delete procedure	Wait that During a copy / delete file the [SAVE] Led stops to blink. An interrupted write data can cause data loss and / or problems into the card.
Windows ME, 2000, XP require drivers installation	The USB mode in Galileo is wrong	Set the right USB mode (see par. "First setup - USB mode selection")
During a file copy / delete procedure, the PC screen shows the "Unit disconnected or removed" or "Impossible to write to the peripheral" errors	The memory card has been extracted from Galileo	
	The memory card is "write protected"	Remove from the memory card the silver label for the "write protect"
	The memory card has been extracted during a copy / delete procedure	During a file copy / delete wait that the [SAVE] Led stops to blink. A non completed "write procedure" can cause data loss and problems into the card.

The PC screen doesn't show the "Copy in progress" message during a file copy. The [SAVE] Led on Galileo is blinking.	The file copy procedure is in progress	It might happen that the progress bars showed by the operating system don't show the right time required to complete the operation. Hovewer, write data is in progress. Wait until the [SAVE] Led is switched off.
File copies from CD or floppy disk are slow	Some delay could be generated, and not caused by Galileo, during a directly copy from CD or FD.	Copy the CD or FD contents into the hard disk if this type of coping procedure is frequently used
Some files, stored in the memory card, are not showed by Galileo	These files are not compatible with Galileo or have been stored more than 512 files in a folder	
Some MIDI, MP3 or KAR files, stored in the memory card, are not showed by Galileo	The file system of the memory card is not refreshed	Wait for the file copy completing (the [SAVE] Led is switched off). If it doesn't work, eject and re-insert the card
After a memory card format, some files are still showed by Galileo	The file system of the memory card is not refreshed	Wait for the file copy completing (the [SAVE] Led is switched off). If it doesn't work, eject and re-insert the card
The "Removable disk" icon is not displayed by the PC, also if Galileo is connected to the PC and the memory card is inserted.	The PC has disabled the drivers after a wrong procedure.	Re-start the PC checking that Galileo is connected and that the memory card is inserted.

PROBLEMS WITH MACINTOSH COMPUTER		
After you have extracted and re-inserted the memory card into Galileo, the computer screen doesn't show the icon	Due to the features of the operating system, it may happen that the computer doesn't show that the memory card is present when the same is ejected and re-inserted in a rather short time	Extract and re-insert the memory card
The Galileo shows "Desktop folders", "Trash" and "---Move & Rename" folders which are not visualized on the computer.	They are system folders which are are not visualized on the computer.	
The computer shows all the folders which are contained into the memory card and which are classified as "Protected". Under this circumnstance is not possible to save other files.	Most probably the USB connnection has been (improperly) installed.	Check and adjust the right USB mode (see par."First setup - USB mode selection")

TV DISPLAYING PROBLEMS		
The TV doesn't show nothing	AV channel not selected	Check that the AV channel of the input where Galileo is connected it is actived. Check the AUTO AV function (VIDEO menu) in Galileo
	The SCART cable is wrong	Check that all the 21 pins of the SCART cable have been connected
	All colors are setted as "Black"	Check the function for the colors selection (see par. "Video settings - Colors selection")
It is not possible to heard the audio from the TV	Volume is low	Adjust the volume on the TV and Galileo ([MASTER] slider)
	The SCART cable is broken	Replace the SCART cable
The syllabication is not showed by the TV	The reproduced MIDI file doesn't implement the syllabication	
	The syllabication and text colors are the same	Check the function for the colors selection (see: par. "Video settings - Colors selection")

SOUND LIST

MAIN SOUNDS
(all channels except 10)

PG	GENERAL MIDI	PG	GENERAL MIDI	PG	GENERAL MIDI	PG	GENERAL MIDI
0	Grand Piano	**32**	Acoustic Bass 1	**64**	Soprano Sax	**96**	Rain
1	Bright Piano	**33**	Finger Bass	**65**	Alto Sax 1	**97**	Soundtrack
2	E. Grand Piano	**34**	Pick Bass	**66**	Tenor Sax	**98**	Crystal
3	Honky Tonk	**35**	Fretless 1	**67**	Baritone Sax	**99**	Atmosphere 1
4	Electric Piano 1	**36**	Slap Bass 1	**68**	Oboe	**100**	Brightness
5	Electric Piano 2	**37**	Slap Bass 3	**69**	English Horn	**101**	Goblins
6	Harpsichord 1	**38**	Synth Bass 1	**70**	Bassoon	**102**	Echoes
7	Clavinet	**39**	Synth Bass 2	**71**	Clarinet 1	**103**	Sci-fi
8	Celesta	**40**	Violin 1	**72**	Piccolo	**104**	Sitar
9	Gloken	**41**	Viola	**73**	Flute	**105**	Banjo
10	Music Box	**42**	Violoncello	**74**	Recorder	**106**	Shamisen
11	Vibes	**43**	Double Bass	**75**	Pan Flute	**107**	Koto 1
12	Marimba	**44**	Tremolo Strings	**76**	Blow Bottle	**108**	Kalimba
13	Xylopon	**45**	Pizzicato	**77**	Shakuhachi	**109**	Bag Pipe
14	Chimes	**46**	Harp	**78**	Wistle	**110**	Fiddle
15	Dulcimer	**47**	Timpani	**79**	Ocarina	**111**	Shanai
16	Drawbar Organ	**48**	Str Ensamble 1	**80**	Square 1	**112**	Tinkle Bell
17	Jazz Organ1	**49**	Str Ensamble 2	**81**	Sawtooth 1	**113**	Agogo
18	Rock Organ 1	**50**	Synth Strings 1	**82**	Calliope	**114**	Steel Drum
19	Church Organ 1	**51**	Synth Strings 2	**83**	Chiff	**115**	Woodblock
20	Reed Organ	**52**	Choir Aah	**84**	Charang	**116**	Taiko Drum
21	Musette	**53**	Voice Ooh	**85**	Voice	**117**	Melodic Tom 1
22	Harmonica	**54**	Syn Voice	**86**	Fifths	**118**	Synth Drum 1
23	Tango Accordion	**55**	Orchestra Hit	**87**	Bass Lead 1	**119**	Reverse Cymbal
24	Nylon Guitar	**56**	Trumpet 1	**88**	Fantasy 1	**120**	Guitar Fretnoise
25	Steel Guitar	**57**	Trombone 1	**89**	Warm Pad	**121**	Breath Noise
26	Jazz Guitar	**58**	Tuba	**90**	Polysynth	**122**	Seashore
27	Clean Guitar 1	**59**	Mute Trumpet	**91**	Choir	**123**	Bird Tweet
28	Muted Guitar	**60**	French Horn 1	**92**	Bowed	**124**	Telephone 1
29	Overdrive Guitar	**61**	Brass	**93**	Metallic	**125**	Helicopter
30	Distort. Guitar	**62**	Syn Brass 1	**94**	Halo	**126**	Applause
31	GtR Harmonics	**63**	Syn Brass 2	**95**	Sweep	**127**	Gunshot

SOUND VARATIONS
(all channels except 10)

PC: Program Change
CC0: Bank Select MSB
w: pan type sound (low notes sent to left, high notes left to right)
d: other velocity response
v: velocity split type sound
o: special release on sound
32*: this variation can also be obtained by sending varation #24

PG	CC0	1st VARIATION	CC0	2nd VARIATION	CC0	3rd VARIATION
0	**8**	Piano 1w	**10**	Piano 1d		
4	**8**	Detuned El. Piano 1	**16**	Electric Piano 1v	**24**	60's Electric Piano
5	**8**	Detuned El. Piano 2	**16**	Electric Piano 2v		
6	**8**	Coupled Hps.			**24**	Harpsi o
14	**8**	Church Bell	**9**	Carillon		
16	**8**	Detuned Organ 1	**16**	60's Organ 1	**32***	Organ 4
17	**8**	Detuned Organ 2			**32***	Organ 5
19	**8**	Church Organ 2	**16**	Church Organ 3		
21	**8**	Accordion (italian)				
24	**8**	Ukelele	**16**	Nylon Guitar o	**32***	Nylon Guitar 2
25	**8**	12 Strings Guitar	**16**	Mandolin		
26	**8**	Hawaiian Guitar				
27	**8**	Chorus Guitar				
28	**8**	Funk Guitar	**16**	Funk Guitar 2		
30	**8**	Feedback Guitar				
31	**8**	Guitar Feedback				
33	**8**	Finger Bass 2				
34	**8**	Picked Bass 2				
38	**1**	Syn Bass 101	**8**	Synth Bass 3		
39	**8**	Synth Bass 4	**16**	Rubber Bass		
40	**8**	Slow Violin				
48	**8**	Orchestra				
50	**8**	Syn Strings 3				
52	**32***	Choir Aahs 2				
54	**8**	Synth Voice 2				
57	**1**	Trombone 2				
60	**1**	Fr. Horn				
61	**8**	Brass 2				
62	**8**	Syn Brass 3	**16**	Analog Brass 1		
63	**8**	Syn Brass 4	**16**	Analog Brass 2		
80	**1**	Square 2	**8**	Sine Wave		
81	**1**	Saw	**8**	Doctor Solo		
85	**8**	Lead Voice 2				
91	**8**	Pad Choir				

PG	CC0	1st VARIATION	CC0	2nd VARIATION	CC0	3rd VARIATION
98	**1**	Syn Mallet				
100	**8**	Brightness 2				
101	**8**	Goblins 2				
102	**1**	Echo Bell	**2**	Echo Pan		
104	**1**	Sitar 2				
107	**8**	Taisho Koto				
115	**8**	Castanes				
116	**8**	Concert BD				
117	**8**	Melodic Tom 2				
118	**8**	808 Tom	**9**	Electric Perc 1		

EFFECT VARIATIONS

PG	CC0=1	CC0=2	CC0=3	CC0=4	CC0=5
120	Guitar Cut Noise	String Slap			
121	Fl. Key Click				
122	Rain	Thunder	Wind	Stream	Bubble
123	Dog	Horse Gallop	Bird 2		
124	Telephone 2	Door Creaking	Door Closing	Scratch	Wind Chime
125	Car Engine Start	Car Breaking	Car Pass	Car Crash	Police Siren
126	Laughing	Screaming	Punch	Heart Beat	Footstep
127	Machine-gun	Lasergun	Exposion		

PG	CC0=6	CC0=7	CC0=8	CC0=9
120				
121				
122				
123				
124				
125	Train	Jet Takeoff	Starship	Burst Noise
126				
127				

DRUM SET
(MIDI channel 10)

	Prog 1: HQ STD SET1	Prog 2: HQ STD SET2	Prog 9: HQ ROOM SET	Prog 17: HQ POWER SET	Prog 25: HQ ELEC. SET
27 - D#1	High Q				
28 - E1	Slap				
29 - F1	Scratch Push				
30 - F#1	Scratch Pull				
31 - G1	Sticks				
32 - G#1	Square Click				
33 - A1	Metronome Click				
34 - A#1	Metronome Bell				
35 - B1	HQ STD1 Kick2	HQ STD2 Kick2	HQ Room Kick2	HQ Power Kick2	HQ Elect Kick2
36 - C2	HQ STD1 Kick1	HQ STD2 Kick 1	HQ Room Kick1	HQ Power Kick1	HQ Elect Kick1
37 - C#2	Side Stick				
38 - D2	HQ STD1 Snare1	HQ STD2 Snare1	HQ ROOM Snare1	Gated Snare	Elec SD
39 - D#2	Hand Clap				
40 - E2	Snare Drum2	HQ STD Snare2	HQ Room Snare1	HQ Power Snare1	HQ Elec Snare1
41 - F2	HQ Low Floor Tom		HQ Power Low Tom2	HQ Power Low Tom2	Elec Low Tom2
42 - F#2	Closed Hi Hat [EXC1]				
43 - G2	HQ High Floor Tom		HQ Power Low Tom1	HQ Power Low Tom1	Elec Low Tom1
44 - G#2	Pedal Hi Hat [EXC1]				
45 - A2	HQ Low Tom		HQ Power Mid Tom2	HQ Power Mid Tom2	Elec Mid Tom2
46 - A#2	Open Hi Hat [EXC1]				
47 - B2	HQ Low Mid Tom		HQ Power Mid Tom1	HQ Power Mid Tom1	Elec Mid Tom1
48 - C3	HQ Hi Mid Tom		HQ Power High Tom2	HQ Power High Tom2	Elec High Tom2
49 - C#3	Crash Cymbal 1				
50 - D3	HQ High Tom		HQ Power High Tom1	HQ Power High Tom1	elec High Tom1
51 - D#3	Ride Cymbal1				
52 - E3	Chinese Cymbal				Reverse Cymbal
53 - F3	Ride Bell				
54 - F#3	Tambourine				
55 - G3	Splash Cymbal				
56 - G#3	Cowbell				
57 - A3	Crash Cymbal 2				
58 - A#3	Vibraslap				
59 - B3	Ride Cymbal 2				
60 - C4	Hi Bongo				
61 - C#4	Low Bongo				
62 - D4	Mute High Conga				
63 - D#4	Open High Conga				
64 - E4	Low Conga				
65 - F4	High Timbale				
66 - F#4	Low Timbale				
67 - G4	High Agogo				
68 - G#4	Low Agogo				
69 - A4	Cabasa				
70 - A#4	Maracas				
71 - B4	Short Whistle [EXC2]				
72 - C5	Long Whistle [EXC2]				
73 - C#5	Short Guiro [EXC3]				
74 - D5	Long Guiro [EXC3]				
75 - D#5	Claves				
76 - E5	High Wood Block				
77 - F5	Low Wood Block				
78 - F#5	Mute Cuica [EXC4]				
79 - G5	Open Cuica [EXC4]				
80 - G#5	Mute Triangle [EXC5]				
81 - A5	Open Triangle [EXC5]				
82 - A#5	Shaker				
83 - B5	Jingle Bell				
84 - C6	Belltree				
85 - C#6	Castanets				
86 - D6	Mute Surdo [EXC6]				
87 - D#6	Open Surdo [EXC6]				
88 - E6					

	Prog 26: HQ TR808 SET	Prog 27: HQ DANCE SET	Prog 33: JAZZ SET	Prog 41: BRUSH	Prog 49: ORCHESTRA	Prog 57: SFX SET
27 - D#1					Closed Hi Hat	*
28 - E1					Pedal Hi Hat	*
29 - F1					Open Hi Hat	*
30 - F#1					Ride Cymbal	*
31 - G1						*
32 - G#1						*
33 - A1						*
34 - A#1						*
35 - B1	HQ 909 BD	HQ Dance Kick	Jazz BD2	Jazz BD2	Concert BD2	*
36 - C2	HQ 808 BD	HQ Elec Kick2	Jazz BD1	Jazz BD1	Concert BD1	*
37 - C#2	808 Rim Shot					
38 - D2	808 Snare Drum	HQ Dance Snare1		Brush Tap	Concert SD	*
39 - D#2				Brush Slap	Castanets	High Q
40 - E2	HQ 909 Snare	HQ Dance Snare1		Brush Swirl	Concert SD	Slap
41 - F2	808 Low Tom2	Elec Low Tom2			Timpani F	Scratch Push
42 - F#2	808 CHH [EXC1]	808 CHH [EXC1]			Timpani F#	Scratch Pull
43 - G2	808 Low Tom1	Elec Low Tom1			Timpani G	Sticks
44 - G#2	808 CHH [EXC1]	808 CHH [EXC1]			Timpani G#	Square Click
45 - A2	808 Mid Tom2	Elec Tom2			Timpani A	Metronome Click
46 - A#2	808 OHH [EXC1]	808 OHH [EXC1]			Timpani A#	Metronome Bell
47 - B2	808 Mid Tom1	Elec Mid Tom1			Timpani B	Guitar Slide
48 - C3	808 Hi Tom2	Elec Hi Tom2			Timpani C	Gt Cut Noise (down)
49 - C#3	808 Cymbal				Timpani C#	Gt Cut Noise (up)
50 - D3	808 Hi Tom1	Elec Hi Tom1			Timpani D	Double Bass Up
51 - D#3					Timpani D#	Key Click
52 - E3		Reverse Cymbal			Timpani E	Laughing
53 - F3					Timpani F	Screaming
54 - F#3						Punch
55 - G3						Heart Beat
56 - G#3	808 Cowbell					Footsteps1
57 - A3					Concert Cymbal2	Footsteps2
58 - A#3						Applause
59 - B3					Concert Cymbal1	Door Creaking
60 - C4						Door Closing
61 - C#4	808 High Conga					Wind Chime
62 - D4	808 Mid Conga					Car Engine Start
63 - D#4	808 Low Conga					Car Pass
64 - E4						Car Breaking
65 - F4						Car Pass
66 - F#4						Car Crash
67 - G4						Police Siren
68 - G#4						Train
69 - A4						Jet Take-off
70 - A#4	808 Maracas					Helicopter
71 - B4						Startship
72 - C5						Gun Shot
73 - C#5						Machinegun
74 - D5						Lasergun
75 - D#5	808 Claves					Explosion
76 - E5						Dog
77 - F5						Horse Gallop
78 - F#5						Birds
79 - G5						Rain
80 - G#5						Thunder
81 - A5						Wind
82 - A#5						Sea Shore
83 - B5						Stream
84 - C6						Bubble
85 - C#6						*
86 - D6						*
87 - D#6						*
88 - E6					Applauses	*

	Prog 65: STANDARD SET	Prog 73: ROOM SET	Prog 81: POWER SET	Prog 89: ELECTR. SET	Prog 90: TR-808 SET
27 - D#1	High Q				
28 - E1	Slap				
29 - F1	Scratch Push				
30 - F#1	Scratch Pull				
31 - G1	Sticks				
32 - G#1	Square Click				
33 - A1	Metronome Click				
34 - A#1	Metronome Bell				
35 - B1	Kick Drum2/Jazz BD2				
36 - C2	Kick Drum1/Jazz BD1		Power Kick	Elec BD	808 Bass Drum
37 - C#2	Side Stick				808 Rim Shot
38 - D2	Snare Drum1		Gated Snare	Elec SD	808 Snare Drum
39 - D#2	Hand Clap				
40 - E2	Snare Drum2			Gated Snare	
41 - F2	Low Floor Tom	Room Low Tom2	Room Low Tom2	Elec Low Tom2	808 Low Tom2
42 - F#2	Closed Hi Hat [EXC1]				808 CHH [EXC1]
43 - G2	High Floor Tom	Room Low Tom1	Room Low Tom1	Elec Low Tom1	808 Low Tom1
44 - G#2	Pedal Hi Hat [EXC1]				808 CHH [EXC1]
45 - A2	Low Tom	Room Mid Tom2	Room Mid Tom2	Elec Mid Tom2	808 Mid Tom2
46 - A#2	Open Hi Hat [EXC1]				808 CHH [EXC1]
47 - B2	Low Mid Tom	Room Mid Tom1	Room Mid Tom1	Elec Mid Tom1	808 Mid Tom1
48 - C3	Hi Mid Tom	Room Hi Tom2	Room Hi Tom2	Elec Hi Tom2	808 Hi Tom2
49 - C#3	Crash Cymbal 1				808 Cymbal
50 - D3	High Tom	Room Hi Tom1	Room Hi Tom1	Elec Hi Tom1	808 Hi Tom1
51 - D#3	Ride Cymbal1				
52 - E3	Chinese Cymbal			Reverse Cymbal	
53 - F3	Ride Bell				
54 - F#3	Tambourine				
55 - G3	Splash Cymbal				
56 - G#3	Cowbell				808 Cowbell
57 - A3	Crash Cymbal 2				
58 - A#3	Vibraslap				
59 - B3	Ride Cymbal 2				
60 - C4	Hi Bongo				
61 - C#4	Low Bongo				
62 - D4	Mute High Conga				808 High Conga
63 - D#4	Open High Conga				808 Mid Conga
64 - E4	Low Conga				808 Low Conga
65 - F4	High Timbale				
66 - F#4	Low Timbale				
67 - G4	High Agogo				
68 - G#4	Low Agogo				
69 - A4	Cabasa				
70 - A#4	Maracas				
71 - B4	Short Whistle [EXC2]				
72 - C5	Long Whistle [EXC2]				
73 - C#5	Short Guiro [EXC3]				
74 - D5	Long Guiro [EXC3]				
75 - D#5	Claves				808 Claves
76 - E5	High Wood Block				
77 - F5	Low Wood Block				
78 - F#5	Mute Cuica [EXC4]				
79 - G5	Open Cuica [EXC4]				
80 - G#5	Mute Triangle [EXC5]				
81 - A5	Open Triangle [EXC5]				
82 - A#5	Shaker				
83 - B5	Jingle Bell				
84 - C6	Belltree				
85 - C#6	Castanets				
86 - D6	Mute Surdo [EXC6]				
87 - D#6	Open Surdo [EXC6]				
88 - E6					

MIDI IMPLEMENTATION CHART

Voice Systems Galileo
Multimedia Player

Date: 18/06/03
Version: 1.0

FUNCTION		TRANSMITTED	RECOGNIZED	REMARKS
BASIC	**DEFAULT**	1-16	X	*1
CHANNEL	**CHANGED**	X	X	
MODE	Default	Mode 3	X	
	Messages	X	X	
	Altered	******	X	
NOTE		0-127	X	*1
NUMBER	True Voice			
VELOCITY	Note ON	O	X	*1
	Note OFF	O	X	
AFTERTOUCH	Key's	O	X	*1
	Ch's	O	X	
PITCH BENDER		O	X	*1
CONTROL		O	X	*1
CHANGE		O	X	
PROGRAM CHANGE		O	X	*1
SYSTEM EXCLUSIVE		O	X	*1
SYSTEM	Song Pos	X	X	
COMMON	Song Sel	O	X	
	Tune	X	X	
SYSTEM	Clock	O	X	
REAL TIME	Commands	O	X	
AUX	Local On-Off	X	X	
MESSAGES	All note off	O	X	
	Active Sense	O	X	
	Reset	X	X	

NOTES:

*1: These messages are transmitted to the MIDI OUT port if Router function is setted as External for the specific channel

Mode 1: OMNI ON, POLY
Mode 2: OMNI ON, MONO
Mode 3: OMNI OFF, POLY
Mode 4: OMNI OFF, MONO

FCC RULES

NOTE: This equipment has been tested and found to comply with the limits for a **Class B** digital Device, persuant to Part 15 if the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio comunications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determinated by turning the equipment off and on, the user is encuraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced Radio/Tv technician for help.

The user is cautioned that any changes or modification not expressly approved by the party responsable for compliance could void the user's authority opearate the equipment.

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